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DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS (4)

Volume 7

A-37

AIRCRAFT

(Includes Documentation for T-37 Model)

October 1975

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ABSTRACT

A general description of the Flight Safety Prediction Technique, and the documentation associated with its specific application to both the A-37 and T-37 aircraft, are presented.

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GLOSSARY

This glossary presents general definitions of terms used in this report. The reader will find certain of these terms defined in somewhat different words in the text, depending on the context of the discussion; but the meaning will be consistent with the definitions given here.

Criticality	A numerical index of the significance of equipment failure history relative to aircraft safety. As an analysis param- eter, it can be considered proportional to the likelihood that an item will fail and thereby cause an accident. It is the product of the failure probability and the sensitivity of an
	equipment item.

Dependency	 See link de 	pendency.

FSPT	- Flight Safety Prediction Technique
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Flight Phases	- Discrete segments of the aircraft mission profile. For
	present purposes, the flight phases are defined as 1) startup
	and taxi, 2) takeoff, 3) climb, 4) cruise, 5) tactics,
	6) cruise, 7) descend, 8) land, and 9) taxi and shutdown.

Functional Analysis	 The determination of equipment relationships to aircraft functions performed, and the interrelationships of these
	functions.

Functional Link	- The simplest form of functional relationship in which one
	function is dependent upon the next lower function.

Functional Path	- The compilation of functional links, in sequence, through
	which a function is identified as being dependent upon another.

Link Dependency	- The conditional probability of a dependent function failing,
	given that a particular function it is dependent upon has failed.

Provisory Condition	
	the safety-related importance of certain equipments is
	increased. Provisory conditions include icing, night flight,
	supersonic flight, etc.

Provisory Factor	 The probability that a provisory condition exists. Also used to describe the coded notation used to indicate that a functional
	relationship is dependent on a particular provisory condition.

Safety Sensitivity - Same as "sensitivity".

Sensitivity

 A quantitative indication of the degree of safety degradation to be expected if a function or piece of equipment fails. The more specific terms are "functional sensitivity" or "equipment item sensitivity".

Sensitivity Path

 A particular sequence of functional dependencies (beginning at the top level in the hierarchical structure) through which a function or piece of equipment derives a sensitivity value. Equipment and functional sensitivity values are often derived through several such sensitivity paths.

FOREWORD

This document is part of a 16-volume report describing the application to specific aircraft types of ARINC Research Corporation's Flight Safety Prediction Technique (FSPT). The technique was developed under previous Air Force contracts (see Appendix A). The present effort, undertaken in 1972 under Contract F09603-72-A-1132-SA01, has led to further refinement of the FSPT through its broad application to many different types of aircraft. The flight safety models generated for these aircraft are presented in individual volumes of this report as follows:

Volume	Aircraft	Volume	Aircraft
2	T-38	10	B-52G, H
3	F-111A, FB-111A	11	C-130E
4	A-7D	12	KC-135
5	F-4D, E; and RF-4C	13	C-5A
6	C-141	14	T-39
7	A-37	15	F-15
8	O-2	16	UH-1N Helicopter
9	OV-10		

Volume 16 will document the results of a feasibility study of extending the FSPT to rotary-wing aircraft.

Volume 1, an overall summary of the contractual effort, will be issued at the end of the contract period.

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The Flight Safety Prediction Technique developed by ARINC Research Corporation provides for assessment of the impact on flight safety of the failure of specific items of equipment within an aircraft. In the FSPT, mathematical modeling procedures are applied for processing aircraft-equipment failure data to yield a quantified index ranking safety-related problems on the basis of their likelihood of occurrence and the resulting degradation in the aircraft's capability to fly.

The ranking factor is called "criticality", which in its simplest form is the product of the failure probability and flight-safety sensitivity of an equipment. (A more detailed definition appears in Section 2 and Appendix B.) The failure probability inputs are from basic failure-data sources, AFM 66-1 and 65-110. The sensitivity estimates are derived by the following process:

- a. Systematic analysis of aircraft functions to determine those essential to flight safety
- b. Identification of the hardware required to perform these functions
- c. Evaluation of the safety significance of the hardware in performing these essential aircraft functions.

The criticality values resulting from this approach provide a relative ranking of all malfunctions with respect to their safety significance. Figure 1-1 is a simplified example of how three equipment items would be ranked on the combined basis of their failure probability and safety sensitivity. This figure illustrates an example in which item A has the highest failure probability, but due to the low sensitivity value is ranked below item B in criticality.

The methodology has the ability to rank malfunction problems currently and continuously by their accident potential. This ranking, based on criticality assessment, can provide the basic parameters necessary for:

- a. Identifying equipment items whose failure history and application pose a threat to aircraft safety
- b. Quantifying the degree of threat associated with each equipment item
- c. Evaluating and tracking the effectiveness of modifications to the aircraft
- d. Assessing safety benefits versus the cost of proposed aircraft modifications, changes in maintenance or flight operations, or alternative aircraft designs.

In this report, Section 4 and Appendix D pertain specifically to the A-37 aircraft. The remainder of the document provides support information that will make the A-37 data, and the method by which the data were obtained, more meaningful to the general reader.

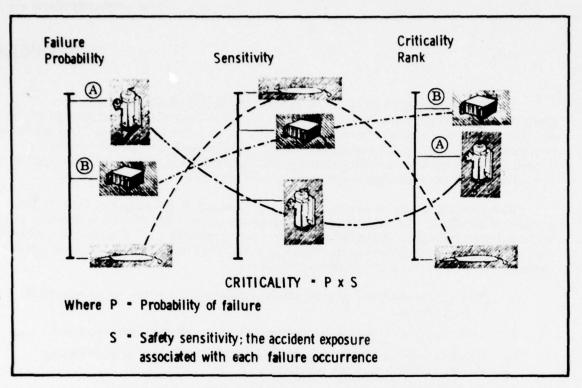


Figure 1-1. Example of Criticality Ranking Process

Section 2 presents an overview of the development and utilization of the Flight Safety Prediction Technique; Section 3 discusses the steps associated with generating a safety model for calculating the safety criticality of verious equipments of an aircraft; and Section 4 describes how the safety model for the A-37 aircraft was developed. Appendix A summarizes the contractual history of the development of the FSPT; Appendix B discusses mathematical considerations underlying the technique; Appendix C discusses FSPT documentation methods; and Appendix D presents functional relationship diagrams and a listing of keypunch cards that comprise the safety model documentation for the A-37 and T-37 aircraft.

This section discusses the basic definitions and mathematical concepts associated with the Flight Safety Prediction Technique.

2.1 DEFINITION OF SAFE AIRCRAFT

To develop a relative measure of aircraft safety degradation resulting from specific equipment malfunctions, it is first necessary to define a "safe" aircraft. For purposes of the FSPT assessments, an aircraft is assumed to be in a safe condition if it is operating within its prescribed performance limits. Conversely, an aircraft operating (or about to operate) outside these limits is considered to be unsafe — in a condition where property damage and personal injury may result.

The safety prediction methodology does not attempt to assess the extent of possible personal injury or aircraft damage resulting from an unsafe condition. Neither does the concept consider ejection capability, parachutes, life rafts, etc., which do not make an aircraft safer per se but provide for the survivability of the aircrew when the aircraft is unsafe. Collision is also excluded from consideration because of the complexity of the interrelationships between pilot, aircraft equipment, ground surveillance, and traffic density.

2.2 MATHEMATICAL BASIS OF FSPT

The probability of an accident caused by the failure of an element can be expressed as the probability of the element failing multiplied by the conditional probability that the failure of the element will cause an accident. Stated in equation form:

$$P(A,j) = P(j)P(A|j)$$
 (1)

where

P(A,j) = Probability of an accident due to failure of just the jth element*

P(j) = Probability that element j fails

P(A|j) = Probability of an accident given that the jth element fails.

This equation reflects the basic relationships addressed in the FSPT where:

- a. The criticality of the jth element is an estimate of P(A, j)
- b. The sensitivity of the jth element is an estimate of P(A|j)

^{*}In this and subsequent discussions, unless otherwise stated, expressions such as "failure of the jth element" should be interpreted to mean: failure of only the jth element, assuming all other elements are not failed.

Because an element's effect on safety may depend on the mission phase (see Section 3.2.1), the above model can be expanded to:

$$P(A,j) = \sum_{k=1}^{N} P_{j,k} P(A|j,k)$$
 (2)

where

N = Number of mission phases

P_{i,k} = Probability that the jth element is failed in the kth phase

P(A|j,k) = The jth element's sensitivity in the kth phase.

To identify the importance of discrete elements to aircraft safety, a flight profile consisting of nine distinct phases was defined. The phases are discussed in Section 3.2.1.

To utilize equation 2, it was necessary to develop a method for obtaining the values of P(A|j,k), the probability that a malfunction in element j during mission phase k will result in an accident. This method in turn requires the estimation of two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on subfunctions and elements during each such phase*. Each function and equipment item thus derives its sensitivity value from its relationship to the major function(s) dependent upon it.

2.3 SENSITIVITY ASSIGNMENTS

A great deal of information is available on the causes of aircraft accidents, but little exists from which to make the sensitivity assignments [P(A|j)]. These assignments are therefore largely subjective, based on the analyst's knowledge of the system and any information he may have on previous accident history. The sensitivity assignments are reviewed (and revised as necessary) by an Air Force/contractor team working on a particular model to ensure that consistent criteria have been followed. The team review and negotiation of sensitivity assignments is the mechanism by which the value becomes sufficiently objective for use with the model. This negotiation considers all of those top level functions as a group and reassigns sensitivity values as necessary to assure that the most objective proportionality is attained for the particular aircraft model. The same major-function sensitivity values are used for major functions on all aircraft models where configuration and mission profiles permit.

The development of criticality rankings for the various elements (j's) is dependent upon the ability to quantify the failure probability [P(j)] and the element sensitivity [P(A|j)] for each element. Since the intent of the concept is to provide a relative safety ranking of all malfunctions, it is not necessary to develop absolute

^{*}For a more detailed discussion of the mathematics of the FSPT, see Appendix B.

values for P(A|j). If the sensitivity values developed are correct relative to each other, a proper criticality ranking will be established. It is intended that criticality be an index proportional to P(A,j) and therefore provide the same relative rank ordering of elements. The major reasons for proportionality, rather than equality, are:

- a. The FSPT does not account for the effect of extraordinary pilot intervention to prevent an accident in case of equipment malfunction.
- b. Criticality quantification was limited in its treatment of simultaneous occurrence of independent, primary failures.
- c. Operational and malfunction data yield only a proportional estimate of the required information.

While strict proportionality cannot be mathematically proven, it is believed that the criticality rankings provide reasonable relative measures of equipment problem potential.

Figure 3-1 summarizes the approach to the assessment of flight-safety criticality of aircraft equipment. The first contractor activity is the identification of all functions the aircraft is expected to perform and the determination of their interrelationships. Next, each functional relationship is documented; and then sensitivity assignments are made at the major functional levels (below these levels, link dependency values are estimated; see discussion, Section 3.2.2). This process is carried out until each work unit code associated with a major function has been identified with respect to the function performed and dependencies have been estimated. Computer processing calculates the safety sensitivity for each work unit coded item, combines these values with the operation and failure data input by the Air Force, and produces the equipment criticality ranking.

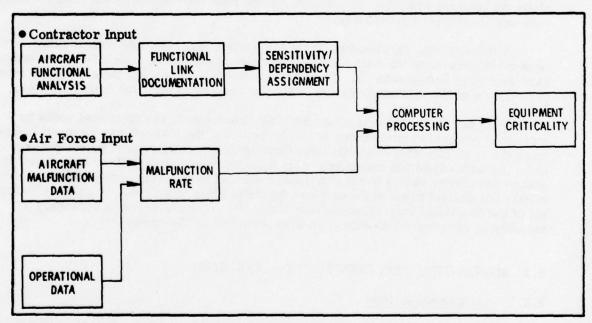


Figure 3-1. Activities and Data Inputs to Flight Safety Criticality Assessment

The steps in this process are discussed in greater detail in the following sections.

3.1 FUNCTIONAL ANALYSIS

Functional analysis entails the systematic identification of the relationships of hardware to the functions performed by the aircraft and documented in the aircraft technical orders. Tabulated for each aircraft function are the equipments necessary for its performance as well as all outputs required for other systems. The complexity of the functional interdependencies of an aircraft requires the use of a systematic

accounting procedure, as discussed below, to assure that all relationships have been identified and that no functional paths have been overlooked.

Certain top-level functions (comprised of both "primary" and "major" functions) have been defined as applicable to all aircraft types, and serve as the starting point for a safety analysis. Figure 3-2 lists these top level functions with the primary function of Flight Control expanded to show its typical major functions. Below the major function level, differences in aircraft types result in function identification and structuring specifically suited to each aircraft. In Figure 3-2, for instance, the major function Roll Control is subdivided into Left Roll and Right Roll, and further into aileron and spoiler actuation subfunctions. This structure is that applicable to an F-4 aircraft, in which ailerons have an extremely limited upward travel and lift is primarily lost through spoiler operation. Finally, each item in the aircraft WUC ("-06") manual is identified with respect to the function it performs.*

Every function and every WUC included in the model receives an "alpha designator" unique to that aircraft model. Due to the large number of alpha designators required in a model, an indenturing system is utilized to prevent duplication. However, the location in the hierarchal structure and the number of characters in the alpha designators are often independent, since such correlation is not necessary for subsequent computer processing.

The functional relationships from the system diagram, and identification of the equipment necessary for each function, are next documented in an 80-column punch-card format (see Appendix C). The total functional diagram for the aircraft is then a compilation of the system diagrams, with one punchcard for each functional link.

With the aircraft functions completely documented, the functional paths by which a piece of equipment contributes to the operation of the aircraft can be identified by computer. Performing the path-identification/documentation task by computer proves to be not only useful but necessary — the human analyst could neither keep track of nor assign sensitivity values to all functional paths. The machine processing capability allows the analyst to consider only one functional link at a time. The ability to follow all of the functional interrelationships within the aircraft, which is necessary for meaningful assessment of safety, is then provided by the computer.

3.2 MAJOR-FUNCTION SENSITIVITY ASSIGNMENT

3.2.1 Assignment Method

As stated earlier, the sensitivity of a function or equipment item is an estimate of the probability that its failure will cause an accident. From functional analysis of the aircraft under consideration, major functions are identified and are assigned sensitivity values for each phase of the mission.

^{*}Certain WUC items in the "-06" manual may not be included in the safety model, these items being either 1) eliminated by TCTOs; 2) purely structural items in the 11000 series; 3) necessary only for survivability or ejection; 4) of lower indenture than the LRU level, where computer data screening eliminates failure reports.

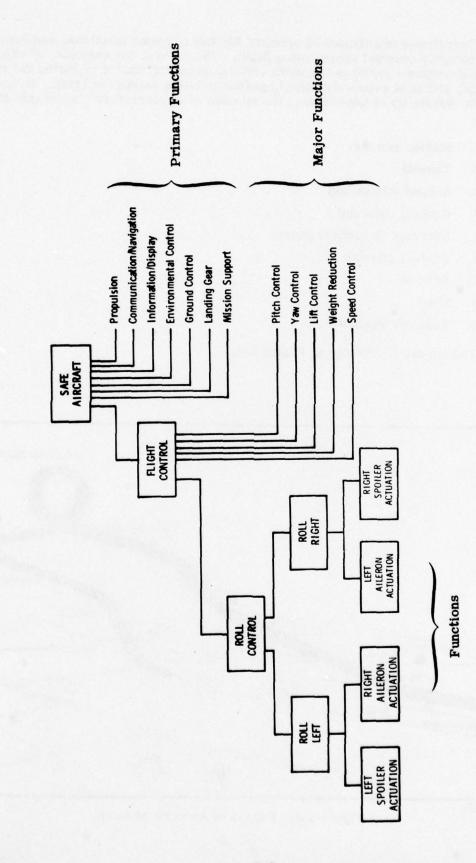


Figure 3-2. Hierarchical Structure of Aircraft Functions

The relative importance of primary functions, major functions, and functions is not necessarily constant throughout a flight. The failure, for example, of one engine of a multi-engine aircraft is far more critical on takeoff than it is during the rest of the flight, and is of relatively little importance during startup and taxi. To accommodate this variability of importance, the mission of an aircraft is divided into nine flight phases:

- 1. Startup and taxi
- 2. Takeoff
- 3. Ascend (climb-out)
- 4. Cruise, outbound
- 5. Intercept or tactical phase
- 6. Cruise, inbound
- 7. Descend
- 8. Land
- 9. Taxi and shutdown

These phases are illustrated in Figure 3-3.

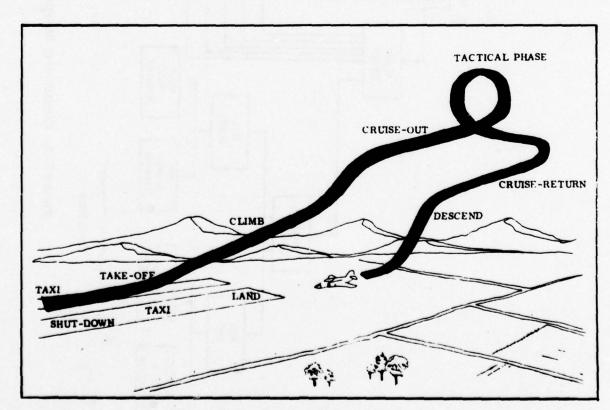


Figure 3-3. Phases of Aircraft Mission

A sensitivity value is assigned for each of the phases, and represents the best estimate of the likelihood that the aircraft will enter a hazardous mode if the function is not present in that phase. The numerical values assigned are proportional rather than absolute, and range from 0.0 to 1.0. The keypunch card format limits this assignment to increments of 0.1. Increments smaller than 0.1, when required, were assigned by defining a quasi-function for insertion between the major function and its dependent primary function.

3.2.2 Link Dependency Assignment

"Link dependency" is defined as the probability that the loss of a function will result in the loss of a dependent function. (For a more detailed discussion of this term, see Appendix B.) The assignment of link dependency values requires knowledge of the operation of specific aircraft because it is concerned only with functional levels below the "major" category. At this lower level, no evaluation is made of the impact on flight safety of the loss of functions. Instead, the effect of the loss of one function on the performance of another function becomes the evaluation criterion. Like sensitivities, link dependency values are assigned in increments of 0.1. Additionally, the method of attenuation used in assigning sensitivity values can also be applied to link dependencies.

3.2.3 Provisory Factors

The sensitivity of major functions with respect to aircraft safety, and at the lower levels the link dependency between functions, can be dependent on external influences and aircraft operating conditions. To accommodate these external influences, a set of provisory factors has been identified. An example would be a wind-shield anti-ice system, which has a safety sensitivity close to 1.0 during landing under icing conditions but a negligible effect on a dry, warm day.

Under such circumstances, the procedure is to assign the "worst case" value (assuming the condition exists). During model exercise the likelihood that the condition exists can be "read-in", thereby allowing the sensitivity value to be assigned by the computer based on the likelihood of the condition and the probability that the higher level function will therefore be lost. Table 3-1 lists the standard provisory factors used in FSPT models.

3.2.4 Computer Processing

Documentation of a flight safety analysis by ARINC Research thus consists of functional diagrams, coded functional tabulations, a functional data processing card deck, and a machine-prepared printout of the card deck data. Under this contract, the documentation is then sent to San Antonio Air Logistics Center for review by MMER personnel and representatives of the Air Logistics Center responsible for the particular aircraft (if other than SA/ALC).

SA/ALC processes the functional data card deck utilizing a number of computerized operations. First, a functional deck edit is accomplished to identify certain format or logic errors that may exist. Next, a path identification/documentation run is made that traces all possible paths associated with each function and calculates the numerical sensitivities by flight phase down to the WUC level. Then, a path combination run is made taking into account the dependence of more than one major function on a particular WUC. Finally, failure information from the 66-1 data system and numerical factors for provisory conditions are input and a WUC criticality list by rank order is generated by the computer.

TABLE 3-1. PROVISORY FACTOR CODES

Code	TABLE 3-1. PROVISORY FACTOR CODES Provisory Condition
A	Icing conditions
В	Adverse speed/altitude operations
c	Runway stopping distance/confined area (Helicopter)
D	Night operation
E	IFR conditions
F	Supersonic flight
	Rain
G	
Н	Solo flight
I	Loss of function for which indication is provided
K	Normal system failed
T	Flame-out
х	Fire
Y	Cold weather
2	One of three available units is required
3	Two of three available units are required
4	One of four available units is required
5	Two of four available units are required
6	Three of four available units are required
8	Four of eight available units are required
	BODING THE STATE OF A SOCIETY OF THE SECOND STATE OF THE SECOND ST
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An additional product generated by the computer is a two-part criticality trend analysis. Part I contains the criticality rankings and linear regression analysis by WUC for the previous 12 months. Part II contains plots of the criticalities and regression lines for the 25 WUCs top-ranked according to safety criticality.

3.2.5 Model Maintenance

Each time an aircraft type for which a safety model has been developed undergoes a modification, the effects of the changes on the model must be evaluated. Technical order and WUC revisions must be incorporated into the model. Removal of existing hardware, the installation of new hardware, or design improvements may change link dependencies and sensitivity assignments. The update procedure should follow the same general steps as outlined for the initial analysis effort.

Existing block diagrams and a printout of the functional card deck form the baseline for change identification. Functional relationships should be reviewed to determine the impact of changes on the documented safety analysis. Diagrams should be revised to reflect functional differences, WUC changes should be noted, and all differences listed on a flight-safety functional tabulation sheet. The functional deck printout can be used for manual indication of what the changes are and where they occur. New data cards are prepared and the functional deck updated by the removal of obsolete cards and the insertion of new cards. From this point on, the computer is again utilized to edit the functional deck, perform path identification/documentation, and calculate sensitivities for each WUC.

Block diagrams and other affected portions of the specific aircraft safety analysis report should be updated and revised pages issued that reflect these changes. Maintaining an accurate and updated model is important to obtaining an accurate assessment of the safety significance of hardware failures.

A-37/T-37 MODEL DEVELOPMENT

The FSPT models for the A-37 and T-37 aircraft have been developed under two contracts. The first contract (F41608-71-C-0576) covered the T-37 aircraft and was completed in June 1971. Results of that effort are documented in ARINC Research publication 697-01-1-1118.

The second (present) contract applies to the A-37 aircraft. Model development for the A-37 was initiated in January 1974, and the completed documentation was submitted to SA/ALC for computer edit in June 1974.

While there was no requirement to rework the T-37 model under the present contract, that model has been modified to reflect improved modeling techniques developed subsequent to the initial effort. Appendix D of this publication includes the documentation for the T-37 model.

The aircraft flight manual and maintenance technical orders provided the information on aircraft system operation. The A-37 model developed represents the aircraft configured to the latest time compliance technical orders documented in the manuals supplied by SA/ALC. Table 4-1 lists the manuals and their revision status applicable to the A-37 models.

A single functional documentation deck of 80-column punchcards having "37" in columns 2, 3 was used for the two versions of the aircraft. Cards having a blank in column 1 are common to both aircraft. When the common cards are combined with those having an "A" in column 1, the resulting deck documents the A-37 aircraft. Similarly the common cards together with the cards containing a "T" in column 1 document the T-37 Aircraft.

The A-37 safety model was developed by ARINC Research for all systems except the landing gear. The landing gear diagram and functional documentation cards were produced by MMER/SA/ALC, and interface documentation for the landing gear was a joint effort by SA/ALC and ARINC Research.

Because of the vulnerability of the functional logic/sensitivity documentation to such errors as omission of links, duplication of cards, and keypunching, quality reviews were conducted at various critical points in the model development. In addition to keypunch verification, each card was checked against the functional link shown on the original rough draft and the final functional diagram and the diagrammed link was checked off. Missing or duplicated functional links were thus identified. Work unit codes used in the model were checked off against the WUC manual to assure completeness.

The quality reviews were first conducted by the organizations responsible for the subsystems prior to merging and computer verification of the respective aircraft decks by SA/ALC. Following the merging of the Air Force/ARINC Research decks and computer verification at SA/ALC, a second quality review was performed by representatives of ARINC Research and SA/ALC. Finally, the first criticality

printout obtained from application of actual aircraft data was reviewed to identify any items whose sensitivity appeared to be unreasonable. In such cases the paths were traced manually and changes made if an erroneous relationship was found.

Appendix C presents the methods and standards used in documenting an FSPT aircraft model. Appendix D presents the FSPT documentation of the A-37 and T-37 aircraft, which covers both the SA/ALC and ARINC Research portion of the models.

TABLE 4-1. A-37 SYSTEM DOCUMENTATION

Publication No.	Title	Revision/Date
1A-37A-1	A-37A Aircraft Flight Manual	Change 10, 1 May 1972
1A-37A-2-3	Hydraulically Generated Systems and Utility Systems	Change 14, 1 Mar 1972
1A-37A-2-5	Power Plant & Fuel System	Change 17, 1 Sept 1972
1A-37A-2-6	Instruments, Radio Communication, and Navigation Equipment	Change 14, 1 Mar 1972
1A-37A-2-7	Electrical System	Change 15, 1 May 1968
1A-37A-2-8	Wiring Diagrams and Data	Change 16, 1 Sept 1972
1A-37A-2-9	Organizational Maintenance Armament and Photographic Equipment	Change 4, 1 Mar 1972
1A-37A-06	A-37A Work Unit Code Manual	Change 4, 15 Feb 1972

APPENDIX A HISTORICAL SUMMARY OF FSPT

HISTORICAL SUMMARY OF FSPT

In 1965, the desirability and practicability of quantifying the significance of specific equipment malfunctions relative to flight safety was explored in a feasibility study conducted by ARINC Research Corporation for the Air Force. The feasibility of a safety-quantification approach, which has subsequently become known as Flight Safety Prediction Technique (FSPT), was demonstrated; and the method was developed and refined in a series of studies, as follows:

Study Phase	Subject/Date	Sponsor*/Publication No.
1	Feasibility Study, September 1965 to June 1967 (Phase I)	Sacramento Air Materiel Area (SMNE), Contract AF09(603)62335, SM-67-2; publication 705-01-1-777
п-А	Technique Development, October 1967 to July 1968 (Phase II-A)	San Antonio Air Materiel Area (SANEW), Contract AF09(603)-67-A-0267-SA01; publication 734-01-1-895
п-в	Technique Development, July 1968 to July 1969 (Phase II-B)	San Antonio Air Materiel Area (SANEW), Contract F09(603)-68-A-0317-SA01; publication 754-01-1-985 (Revision 1)
	FSPT System Documentation for the F-4C and T-37 Aircraft, October 1970 to June 1971	San Antonio Air Materiel Area (MMER) Contract F41608-71-C-0576; publication 697-01-1-1118

In the Phase II-B study, the FSPT was applied to the F-106 aircraft. Concurrent with Phase II-B, the U.S. Naval Safety Center contracted ARINC Research to extend the methodology to produce a flight safety criticality model for the F-4J aircraft. The results of this effort are documented in ARINC Research Publication 753-01-3-982 (Revision 1).

In 1970, ARINC Research was contracted to develop suitable input data to permit the application of the technique to the T-37 and F-4C aircraft. These data were derived in the form of mathematical model functional documentation as input to the basic computer program developed and applied to the F-106.

In 1972, ARINC Research Corporation was awarded a contract, with the subsequent modifications in 1973 and 1974, to apply the Flight Safety Prediction Technique to 15 aircraft, working jointly with cognizant Air Logistics Centers. Aircraft to which the FSPT has been applied under this latter contract (F09603-72-A-1132-SA01) include:

- a. T-38
- b. F-111A and FB-111A

^{*}The office symbols of Service Engineering at the Sacramento and San Antonio Air Materiel Areas are now SM/ALC/MME and SA/ALC/MME, respectively.

- d. F-4D, E; RF-4C
- e. C-141
- f. A-37
- g. O-2
- h. OV-10
- i. B-52G, H
- j. C-130E
- k. KC-135
- 1. C-5A
- m. T-39
- n. F-15
- o. UH-1N Helicopter*

^{*}Feasibility study of adaptation of FSPT to rotary-wing aircraft.

APPENDIX B FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

FORMULATION OF CRITICALITY-ASSESSMENT TECHNIQUE

To implement the basic safety model defined in Section 2.2, it is necessary to develop a submodel for the probability that a malfunction in element j during mission phase k will result in an accident. This submodel in turn requires that we estimate two parameters: the probability of accident if a major function is not available during each mission phase, and the dependence of the major function on element j during each mission phase.

The first parameter is termed "functional sensitivity" and is estimated for each major function. The functional analysis performed in this task established for an aircraft the following hierarchal scheme:

Aircraft

Primary functions

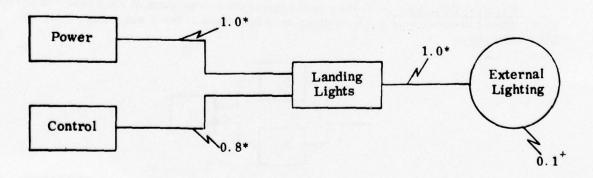
Major functions

Function

Elements (Work Unit Codes)

A primary function would be one such as Flight Control. Major functions under Flight Control would include Pitch Control and Yaw Control.

The second parameter, "link dependency," is a vehicle for showing the influence of each functional-path element on the performance of a major function. For example, if the major function being considered is External Lighting, the following diagram illustrates the nature of functional sensitivity and link dependency values.



^{*} Link dependencies

The 0.8 value means that failure of the Control function will result in loss of the Landing Light function 80% of the time. The 0.1 functional sensitivity value denotes that loss of external lighting will result in an accident 10% of the time. The values must be interpreted in a proportional sense, in that the actual accident probability is dependent upon external factors (see Section 3.2.3).

⁺Functional sensitivity

The remainder of this appendix discusses the procedures and model used to obtain element sensitivities; e.g., in the above example, the accident probability given that a Work Unit Code in the Control function malfunctions.

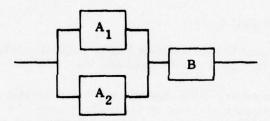
Three principal types of functional relationship—series, redundant, and parallel—were identified as representing the major forms to consider in modeling element sensitivity.

Series Relationship - A function having only one input. Schematically,



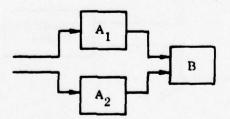
which indicates that outside of its own elements, the success of function B is only affected by the success of function A.

Functional Redundancy - A function having one or more backup functions that can provide the required inputs to successor functions. Schematically,



where A_1 and A_2 represent a functional redundancy in that either may provide the necessary input to B.

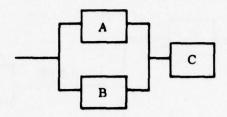
<u>Parallel Functions</u> — Two or more functions independent of each other in terms of functional success, but each of which may be required for a successor function. Schematically,



B will generally require both A_1 and $A_2\,;$ but A_1 does not depend on $A_2\,,$ nor does A_2 depend on $A_1\,.$

In some cases the distinction between functional redundancy and parallel paths is very slight, and may depend on mission phase. For example the four engines of a plane can be considered to be a redundant configuration providing inputs to the primary propulsion function during cruising, but would generally be considered to be parallel functions during takeoffs requiring full power.

In general, given a schematic relationship of the form,

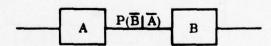


we can say that A and B are in a functionally redundant configuration if the success probability of C is the same if 1) A and B are successful, 2) A only is successful, or 3) B only is successful. If, for example, C is more likely to be successful if both A and B are successful, rather than A or B alone, then the relationship is one of parallel paths.

It is noted that the model will also account for element redundance and parallel elements through inputs such as $P(\overline{A}|i_a)$, representing the probability that the Ath function fails given that the $i_a{}^{th}$ element in A has failed. If i_a is a parallel element, the probability would depend on mission requirements and other parallel-element states.

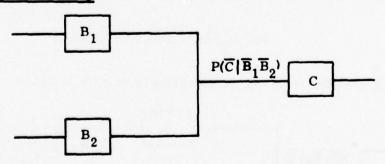
Link dependency is the conditional probability of a functional failure, given the failure of immediate predecessor functions. The link dependencies applicable to the three basic designs defined above are shown below.

Series Relationship

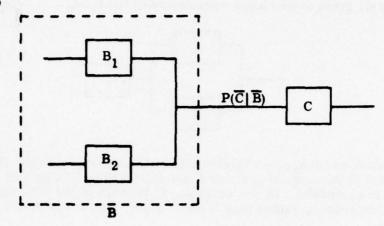


Link dependency = $P(\overline{B}|\overline{A})$ = probability that B fails given that A fails.

Functional Redundancy

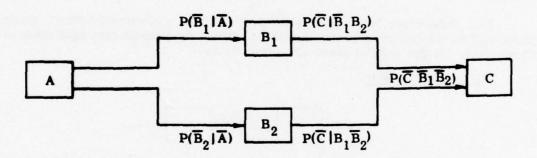


equivalent to



where $\overline{B} = \overline{B}_1 \overline{B}_2$

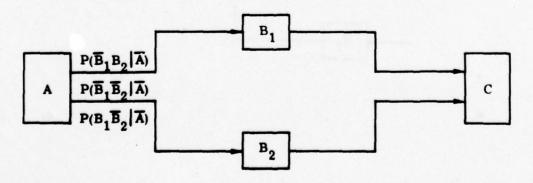
Parallel Functions



We shall generally assume that the dependencies of B_1 with respect to A, and of B_2 with respect to A, are independent of each other, so that

$$P(\overline{B}_1\overline{B}_2|\overline{A}) = P(\overline{B}_1|\overline{A})P(\overline{B}_2|\overline{A})$$

We then can consider three link dependencies from A to B as follows:



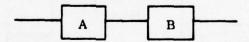
noting that

$$P(\overline{B}_1 \, \big| \, \overline{A}) = P(\overline{B}_1 B_2 \, \big| \, \overline{A}) + P(\overline{B}_1 \overline{B}_2 \, \big| \, \overline{A})$$

$$P(\overline{B}_{2}|\overline{A}) = P(B_{1}\overline{B}_{2}|\overline{A}) + P(\overline{B}_{1}\overline{B}_{2}|\overline{A})$$

Models are shown below for determining the sensitivity of elements within a function for each of the three basic designs. The following basic assumptions apply:

- a. Except for cases where an element has a redundant or parallel counterpart or is located in a function with a redundant or parallel function, only the element under consideration shall be assumed to have failed initially. Thus the expression $P(A|i_a)$, representing the accident probability given failure of the ith Work Unit Code element, is based on the assumption that no other element has failed unless element i is in some redundant or parallel configuration. For cases in which there are redundant or parallel counterparts, failures of such counterpart elements or functions are considered in accordance with their occurrence probabilities.
- b. The success of all immediate predecessors ensures the success of a function, provided that the function experiences no element failures. Thus for the series function relationship



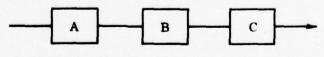
we assume

$$P(\overline{B}|A) = 0$$
,

provided B experiences no element failures. If an element in function A is under consideration, the latter provision is always true by assumption "a."

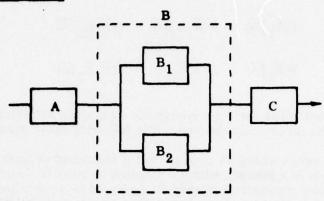
The element sensitivity models are:

Series Relationship



 $P(A|i_a) = P(\overline{A}|i_a)P(\overline{B}|\overline{A})P(\overline{C}|\overline{B})P(A|\overline{C})$

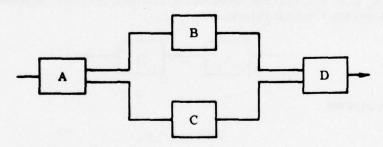
Functional Redundancy



 $P(A|i_a) = P(\overline{A}|i_a)P(\overline{B}|\overline{A})P(\overline{C}|\overline{B})P(A|\overline{C})$

 $P(\mathcal{A} | i_{b1}) = P(\overline{B}_1 | i_{b1}) P(\overline{B}_2) P(\overline{C} | \overline{B}) P(\mathcal{A} | \overline{C})$

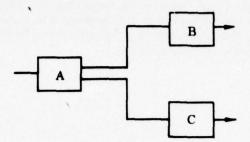
Parallel Functions



 $P(\mathbf{A}|\mathbf{i}_{a}) = P(\overline{\mathbf{A}}|\mathbf{i}_{a}) \left\{ P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) + P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) + P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) + P(\overline{\mathbf{B}}C|\overline{\mathbf{A}}) P(\overline{\mathbf{D}}|\overline{\mathbf{B}}C) \right\} P(\mathbf{A}|\overline{\mathbf{D}})$

 $P(\mathcal{A}|i_b) = P(\overline{B}|i_b) \left\{ P(\overline{C}|i_b) P(\overline{D}|\overline{BC}) + P(C|i_b) P(\overline{D}|\overline{BC}) \right\} P(\mathcal{A}|\overline{D})$

A case not explicitly incuded in the above three basic functional relationships is one for which a function is in two paths, e.g.,



then

$$\begin{split} P(\boldsymbol{\mathcal{A}}|\boldsymbol{i}_{a}) &= P(\overline{C}|\boldsymbol{i}_{a})P(\boldsymbol{B}|\boldsymbol{i}_{a})P(\boldsymbol{\mathcal{A}}|\overline{C}\boldsymbol{B}) + P(C|\boldsymbol{i}_{a})P(\overline{\boldsymbol{B}}|\boldsymbol{i}_{a})P(\boldsymbol{\mathcal{A}}|C\overline{\boldsymbol{B}}) \\ &+ P(\overline{C}|\boldsymbol{i}_{a})P(\overline{\boldsymbol{B}}|\boldsymbol{i}_{a})\left\{1 - P(\overline{\boldsymbol{\mathcal{A}}}|\overline{C})P(\overline{\boldsymbol{\mathcal{A}}}|\overline{\boldsymbol{B}})\right\} \end{split}$$

where it is assumed that the effects of loss of the major functions in accident occurrence are independent of each other.

Use of Numerical Provisory Factors for Partially Redundant Systems

The numerical provisory factors (see Table 3-1) are used where more than two identical functions are involved in a redundancy. For example, aircraft with more than two engines often have identical and independent systems for hydraulic pressurization, and for electrical power generation, one driven by each engine. If the aircraft can be operated safely with one or more of such systems in a failed state, one of the numeric codes is utilized in assigning link dependency values. Consider, for example, the following:

If N identical and independent units* are available and at least M are required for safe operation, where 0 < M < N, then the provisory factor of a given unit, say U_j , is the probability that the failure of U_j will cause the aircraft to enter an unsafe state. This is the probability that exactly M-1 of the remaining N-1 units will be in an unfailed state. This probability can be calculated by the formula for the binomial distribution, and is given by

$$P(U_j) = {N-1 \choose M-1} p^{(M-1)} q^{(N-M)}$$

where $P(U_j)$ = probability that failure of the j^{th} unit will cause the aircraft to enter an unsafe state, and

M = Number of units required

N = Number of units available

p = Probability that a single unit will be in an unfailed state

q = Probability that a single unit will be in a failed state or (1-p)

^{*}Units may be either elements, element assemblies, or functions.

Assignment of link dependencies to N identical and independent units of which only M are required proceeds as follows. The value assigned to each unit is the dependency of the higher level function on receiving an output from M of the units (usually 1.0). The provisory factor is the appropriate numeric code. In the evaluation of the path sensitivity, the computer is programmed to select the binomial formula that corresponds to the provisory factor listed.

APPENDIX C FSPT DOCUMENTATION METHODS

FSPT DOCUMENTATION METHODS

Because of the extreme complexity of aircraft, it is necessary to develop a computerized method to identify and document all possible paths associated with each function as well as to determine the safety sensitivity associated with each path. A computer routine has been devised that takes the data from the functional card deck and traces and documents all paths. For each WUC, it also computes the flight-phase sensitivities for each path in which the WUC is present. The resulting computer printout provides a combined functional path sensitivity.

C.1 ALPHA CODING

As each system of the aircraft is functionally diagrammed, the functional blocks are assigned an "alpha code". This code aids the analyst in the bookkeeping tasks of functional diagramming and provides the computer with an identification of the elements to be processed. For standardization among aircraft, nine top-level functions have been defined and each has been assigned an initial or first-alpha designator. Each block in the functional diagram carries the same initial alpha as the top level function. Subsequent letters added to the initial alpha uniquely identify each block.

The only restrictions placed on the assignment of alpha codes are that:

- a. All characters in a code must be a letter of the alphabet, and
- b. The maximum number of characters in one code is seven.

C.2 ALPHA CODING AND COMPUTER PROGRAM COMPATIBILITY

Additional rules for alpha coding required to obtain the desired results from computer processing include:

- a. When a WUC item operates in the same mode to perform more than one function, the same alpha code is used in each application.
- b. When a WUC item operates in a different mode to perform each of more than one function, a different alpha designator is assigned for each operating mode.

C.3 FUNCTIONAL TABULATION

The "Flight Safety Functional Tabulation" sheet is used to code the safety model for keypunching. The sheets are coded as follows (refer to Figure C-1) for an example).

a. Columns 1 through 3. Used to identify the aircraft represented by the model. For certain aircraft modeled under this contract more than one model – designation series MDS – was included. For instance, a single functional deck was created for four MDSs of the F-4 aircraft. Cards with "F46" in columns 1-3 were common to all aircraft. For example,

*b = blank

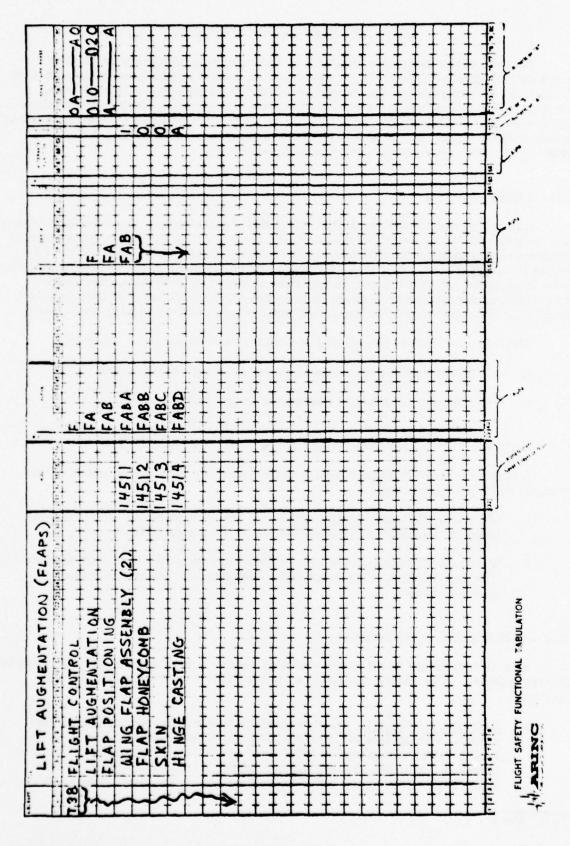


Figure C-1. Flight Safety Functional Tabulation

when these cards are combined with those carrying "F4E" in columns 1-3, then it produces an F-4E FSPT model deck.

- b. Columns 4 through 31. Contain the title of the function or the WUC item.
- c. Columns 32 through 36. Contain the left-justified WUC number.
- d. Columns 37 and 38. Blank
- e. Columns 39 through 46. Contain the assigned alpha designator for the function and/or the WUC. Column 39 contains either an L or an R, or is blank. The L and R designate left and right for those instances when the function and/or WUC pertains to the left or right side of the aircraft.
- f. Columns 47 and 48. Blank.
- g. Columns 49 through 55. Normally left blank, but are used after a deck is operational to substitute the data on a card for that stored in the computer by punching the line record number in this field.
- h. Columns 56 through 63. Identify the dependent functions for either the function or specific WUCs being coded. Column 56 may contain L, R or blank for the same purpose as that of column 39.
- i. <u>Column 64</u>. Contains the alphanumeric code of the 'provisory factor' applicable to the link value assigned.
- j. Columns 65 through 69. Contain the alpha designator of a function that is an alternate for the function being coded. (Column 65 is used for "L" or "R" as in Column 39.) The presence of the "alternate alpha" flags the importance of the link dependency as being affected by the success probability of the alternate function.
- k. Column 70. Contains the work unit code dependency value (1 = 0.10; 2 = 0.20; A = 1.0). This value is applicable to all flight phases.
- l. Column 71. Contains special instructions to the computer through the use of letters F, S, or being blank. Cards with an "S" or "blank" in column 71 are used in sensitivity computations. Cards with an "F" document a functional relationships which, although present in the system, would produce an erroneous sensitivity value when combined with other nonindependent paths (having the same function in common at some higher level). The "F" prevents the computer from including the link in the sensitivity calculations.
- m. Columns 72 through 80. Contain functional dependencies for each of nine flight phases as described in Section 3.2.1 of the text. Coding is the same as for column 70.

C. 4 DIAGRAM CONSTRUCTION

The diagrams produced under the contract document the functional interrelationship of the aircraft systems considered in the model. In the interest of extending the useful life of the diagrams, WUC items are not shown, thereby eliminating the necessity of updating the diagrams with each (and sometimes frequent) change to the WUC manual.

As discussed earlier in this report, the diagrams represent the hierarchal structure of the paths from which the sensitivity values are derived. The diagrams, although consistent with the system schematic and reliability block diagrams, are not equivalent due to this hierarchal method of documentation. In the actual system, signals and/or fluids pass from one component to the next and are thus documented in schematics; conversely, the hierarchal approach only identifies the components that must operate to achieve a given function, independent of the direction and/or sequence of signal flow. This approach directly addresses the system impact of a component failure without the necessity of identifying the intrasystem secondary failures. Each line connecting functions on the diagram is documented by a punchcard, with the lower function providing the "alpha designator" and the higher function's alpha designator indicator as the "dependent function".*

^{*}The card deck also documents functional relationships not shown on the diagram; the work unit codes (mentioned earlier) and the "S" cards discussed in paragraph C. 3.1.

APPENDIX D

FSPT DOCUMENTATION OF A-37 AIRCRAFT (Including Documentation for T-37 Aircraft)

FSPT DOCUMENTATION OF A-37 AIRCRAFT

This appendix contains the functional relationship diagrams and a listing of the keypunch cards that comprise the documentation of the A-37 and T-37 FSPT safety models.

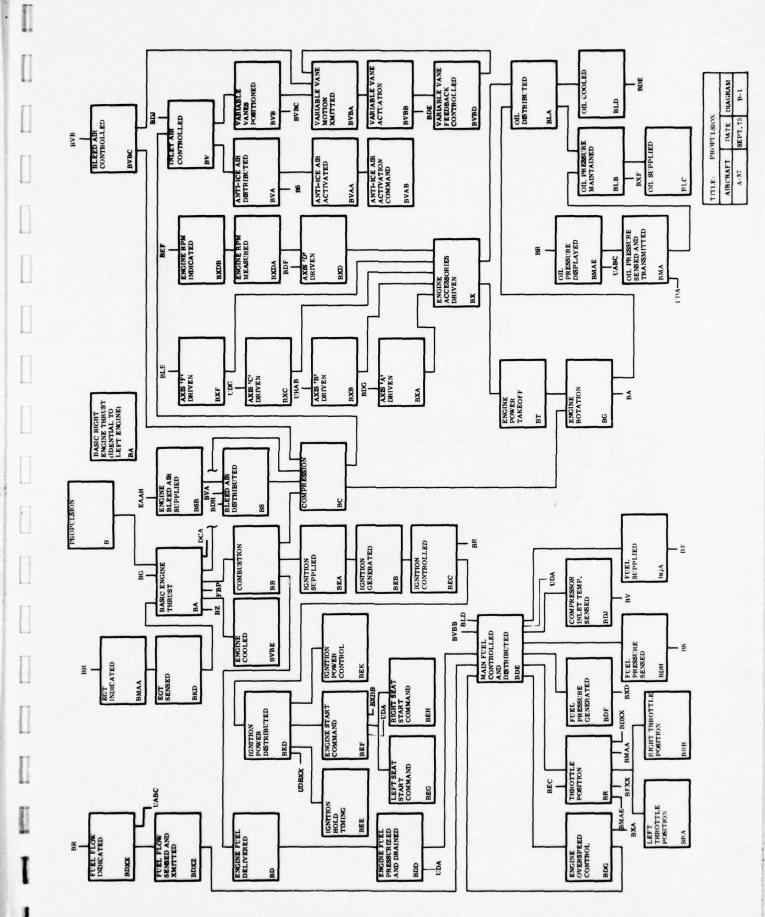
D.1 DIAGRAMS

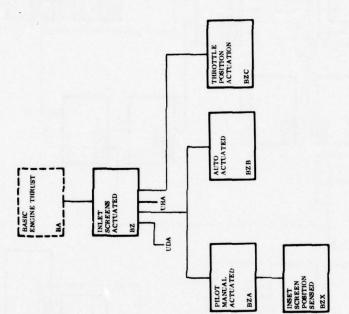
The diagrams illustrating the functional relationships considered in the A-37 and T-37 safety models will be found on pages D-5 through D-19, and are listed below:

Air	craft		
A-37	T-37	Title	Page
x		Propulsion	D-5
x		Propulsion	D-6
	x	Propulsion	D-7
	х	Propulsion	D-8
x		Propulsion	D-9
x		Comm/Nav/Ident	D-10
	x	Comm/Nav/Ident	D-11
x	х	Information & Display	D-12
x	x	Environment	D-13
x	x	Flight Control	D-14
x	х	Flight Control	D-15
x	х	Ground Control	D-16
x	x	Landing Gear	D-17
x		Mission Support	D-18
х	x	Utilities (Electric & Hydraulic)	D-19

D.2 CARD LISTING

Pages D-21 through D-72 are a reproduction of the combined A-37/T-37 punch-card listing. The listing is alphabetical by "alpha designator", and the format is that of the 80-column punchcard itself as described in Appendix C. At the top of each page the card columns are printed vertically; for example, column 34 is printed " $\frac{3}{4}$ ".







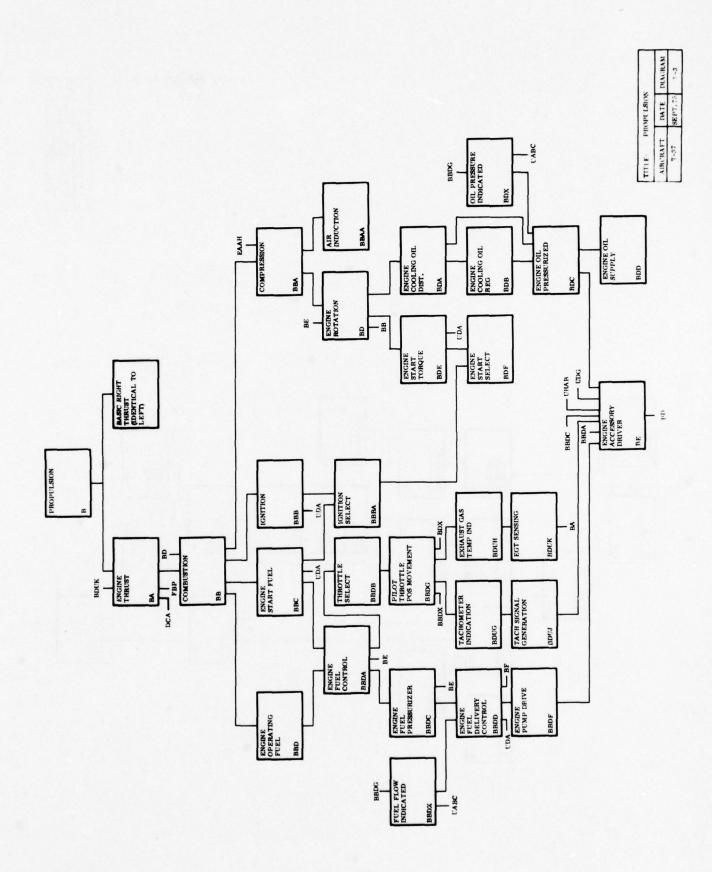
Control

An Cont

1 7.0 C. I

1

BZA

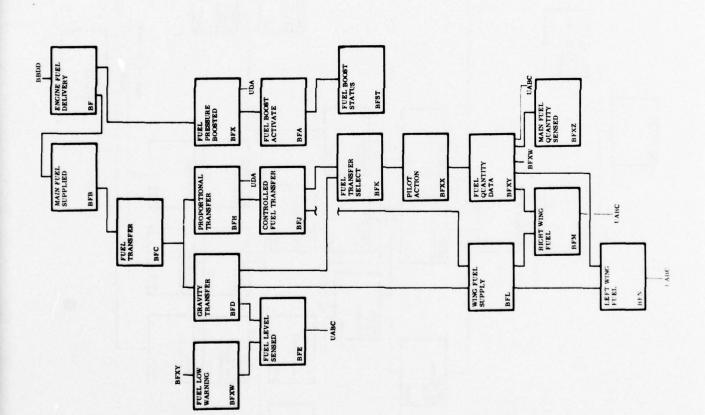


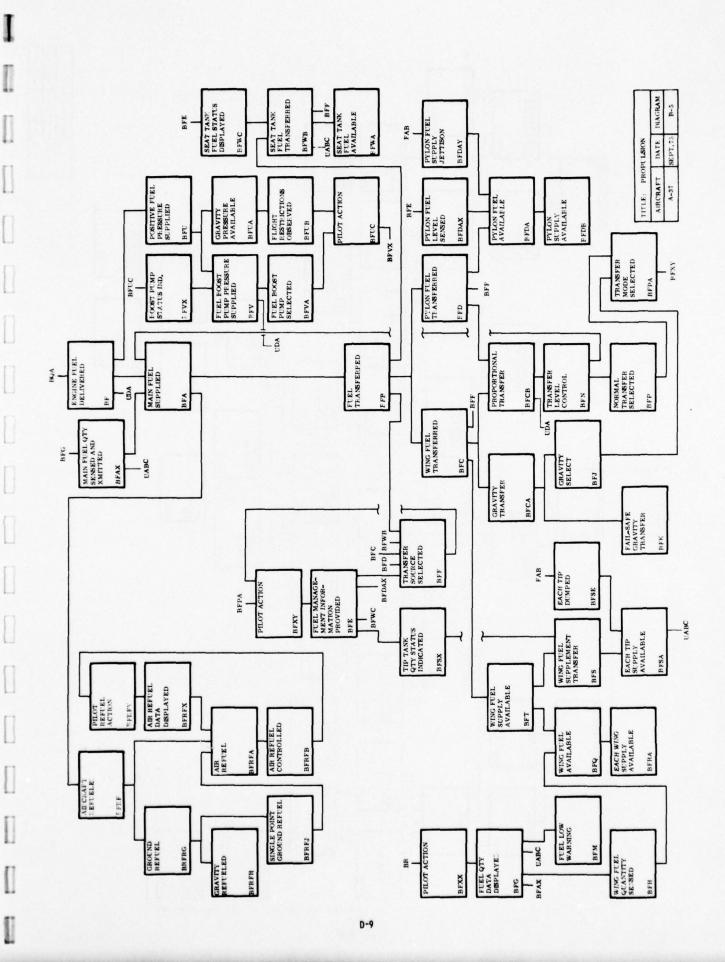
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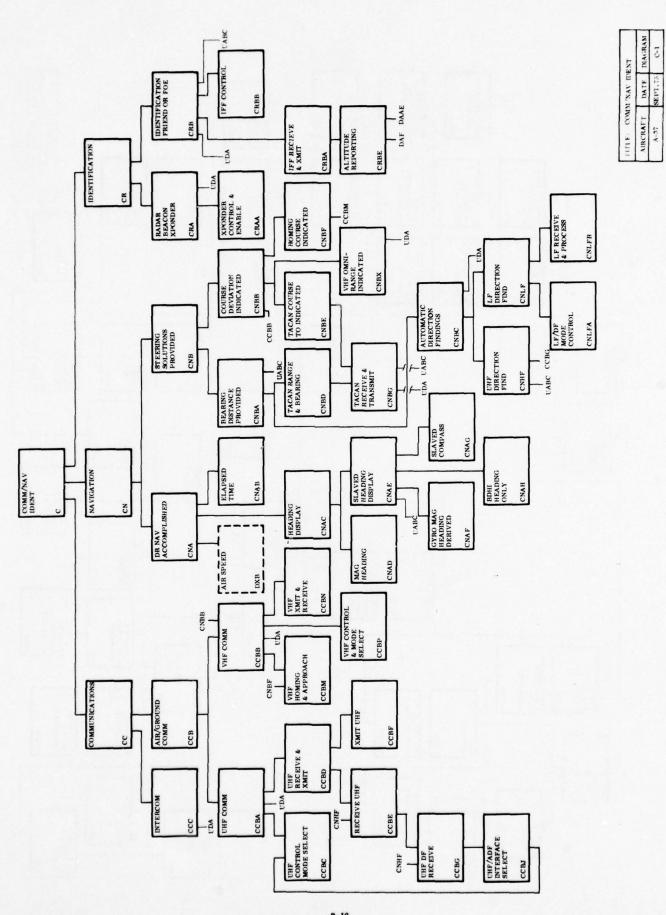


No.

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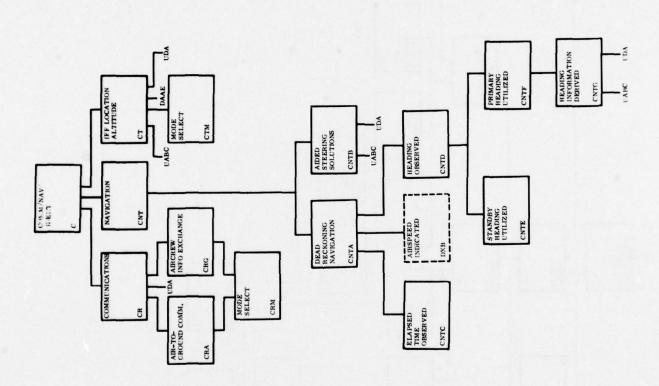




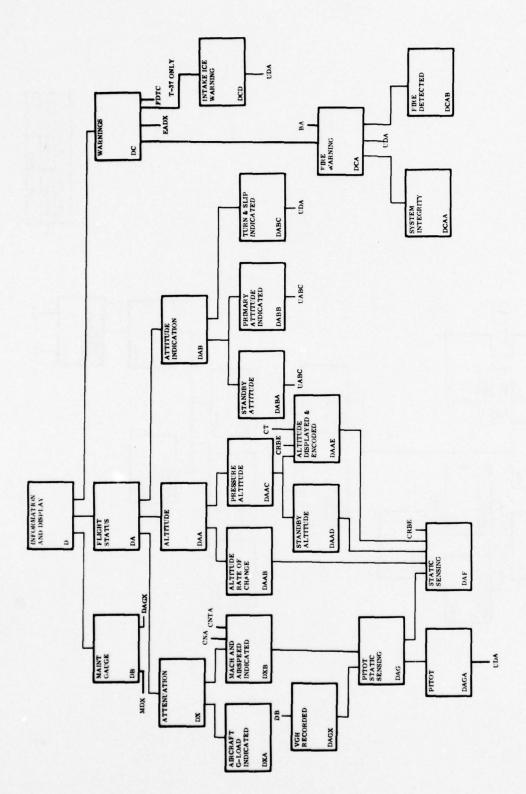


Total Control

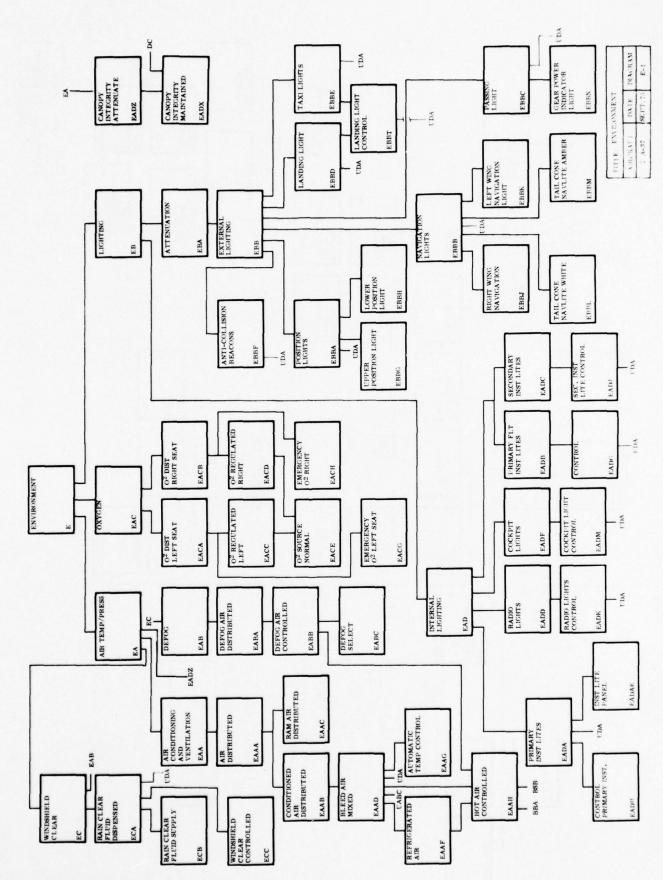


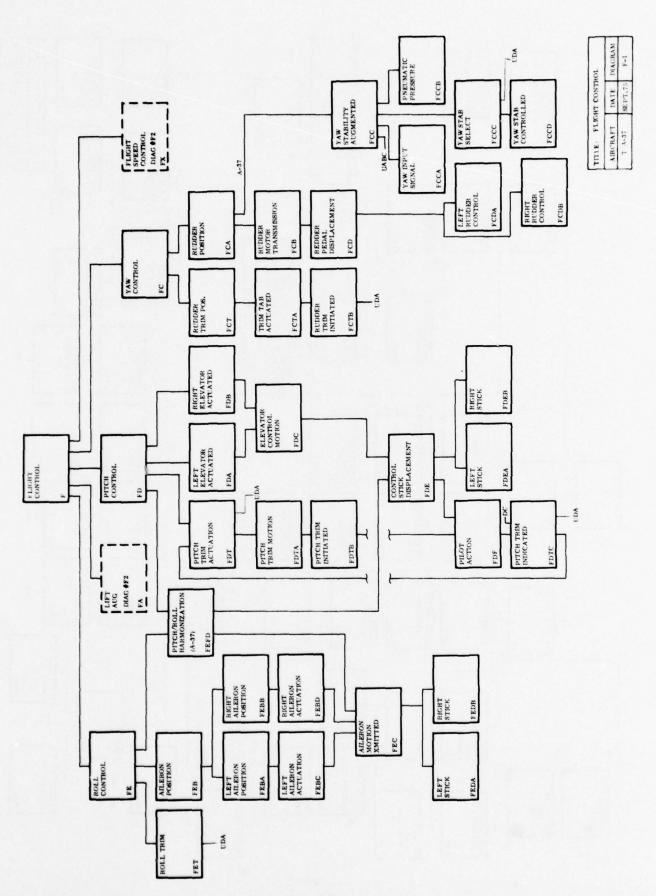


I



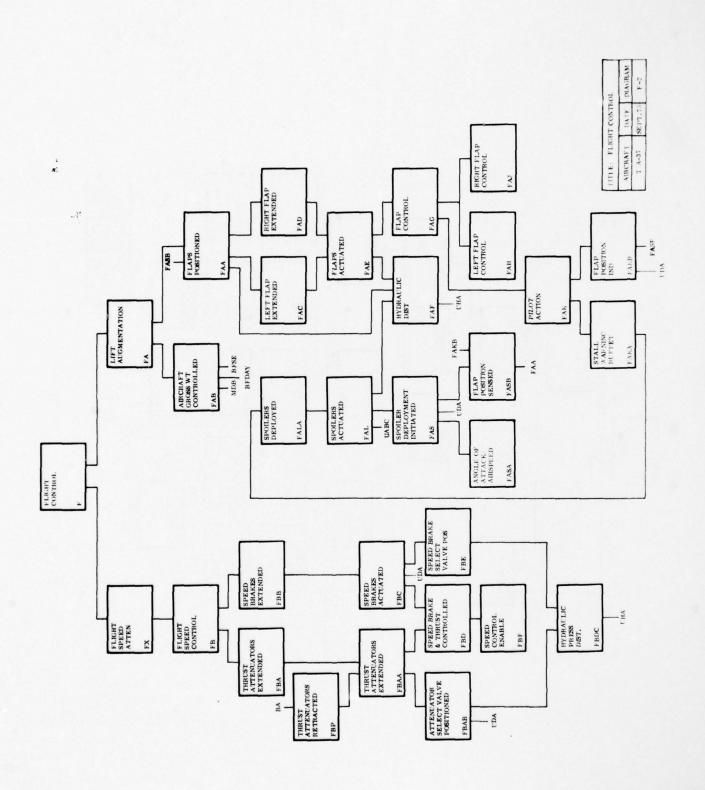
AIRCRAFT	DATE	DIAGRAM
T A-37	SEPT. 75	F-1



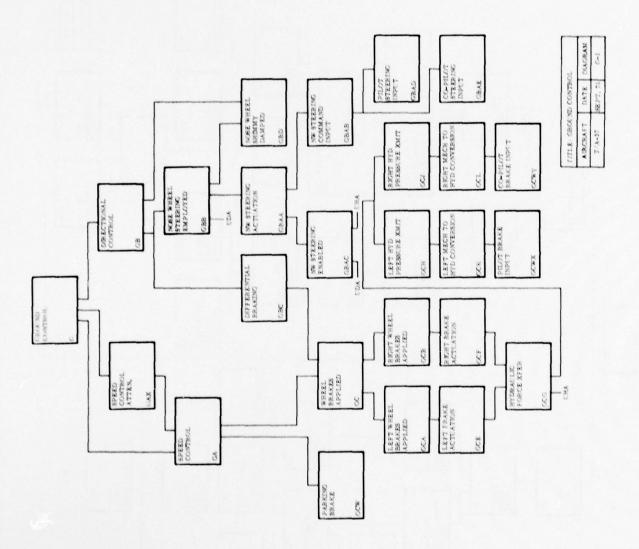


1

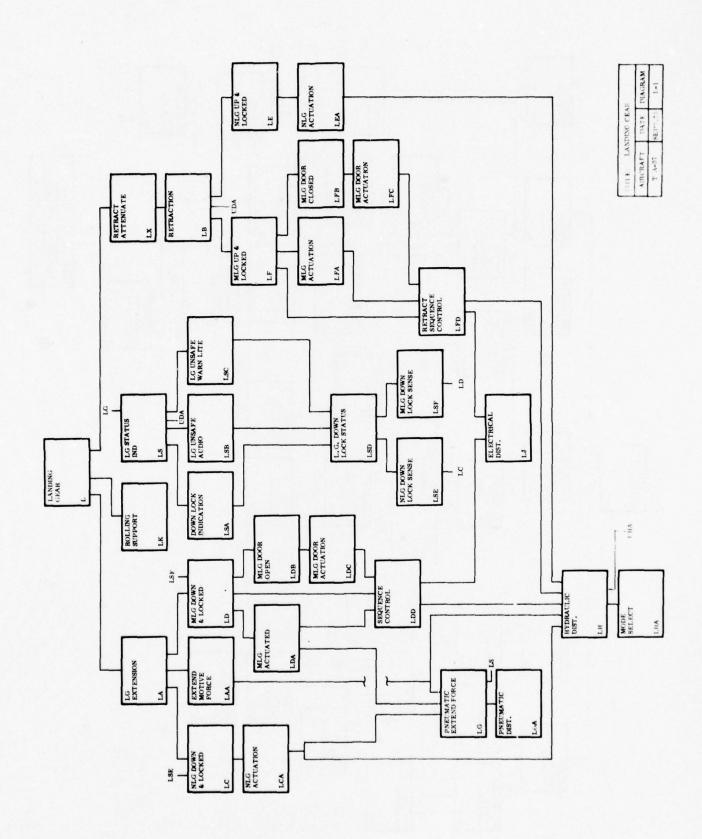
*



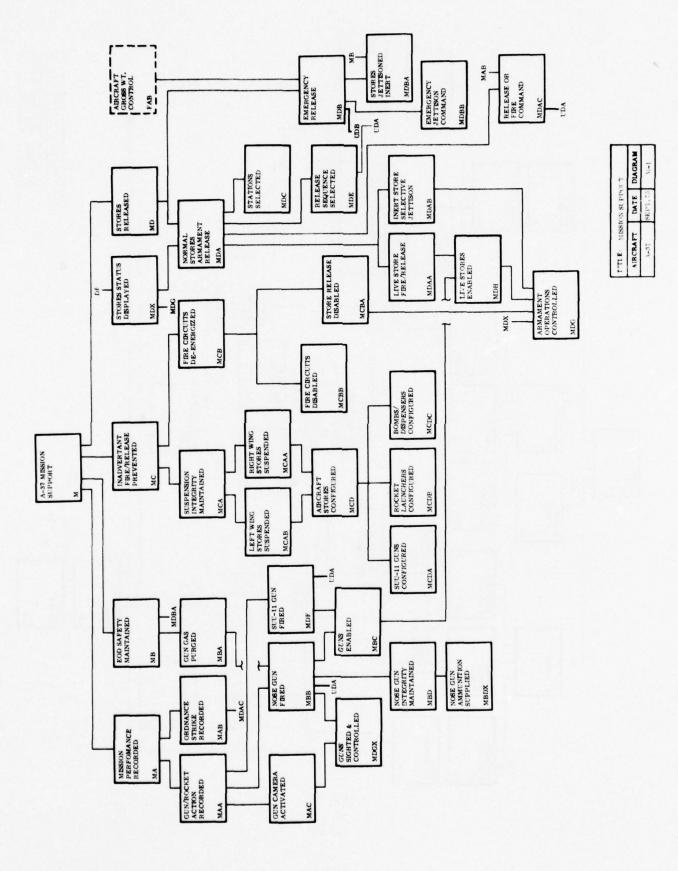
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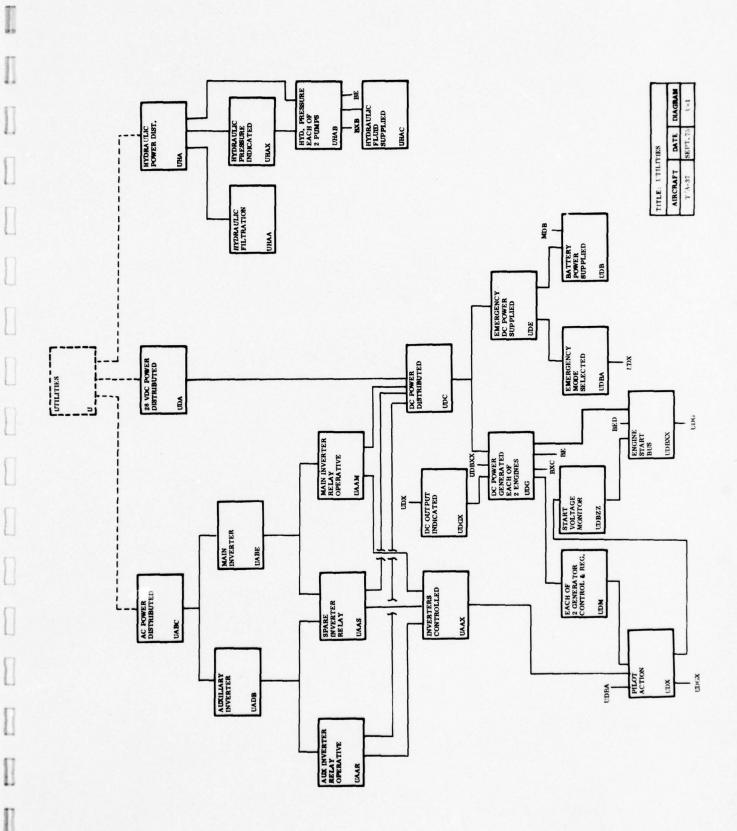


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I





I

PGG095.J1R1 DATE = 09/17/75			FL IGHT	SAFETY	PREDICTION TECHNIQU
060006000111111111122222222223					
123456789012345678901234567890	1234567		789012345	5789012	345678901234567890
37 PROPULSION		8	•		AAAAAAAA
A37 BASIC LEFT ENGINE THRUST		BA		8	041111110
T37L. ENGINE THRUST		BA		В	041111120
T37		BA		BDUK	FAAAAAAAA
A37 HASIC LEFT ENGINE THRUST		BA		BG	FAAAAAAAA
A37 BASIC LEFT ENGINE THRUST		BA		BKO	FAAAAAAAA
T37DIFFUSER	23FAA	BAA		BA	A
T37CONE	23FAB	BAB		BA	A
T37TAIL PIPE	23FAC	BAC		BA	A
T37ADJUSTMENT TABS	23FAD	BAD		BA	C
T37CLAMP	23FAE	BAE		BA	A
TETHOUSING REAR BEARING	23FAF	BAF		BD	A
T37REAR BEARING	23FAG	BAG		BD	A
T37REAR BEARING COVER	23FAH	BAH		BD	A
137REAR BRNG. LABYRINTHSEAL. HSN	G23FAJ	BAJ		BD	2
T37REAR BEARING LABYRINTH SEAL	23FAK	BAK		BD	2
T37REAR BEARING STUDDING ASSY.	23FAL	BAL		BD	A
T37SPIDER ASSEMBLY	23FAM	BAM		BD	1
T37REAR BEARING SUPPORT	23FAN	BAN		BU	Δ
A37 ENGINE DRAIN LINE	23PAE	BAP		BA	
A37 STARTER COVER DUCT	23PAD	BAQ		BA	0
A37 QUICK DISCONNECT	23PAC	BAR		BA	1
A37 FRONT ENGINE MOUNT	23PAB	BAS		BA	8
A37 ENCINE TRUNNION MOUNTS		BAT		BA	8
A37 TAIL PIPE CLAMP	23DAU	BAU		BA	1
A37 TAIL PIPE	23DAT	BAV		BA	ő
A37 EXHAUST CONE, CASING	23DAS	BAW		BA	5
437 STRUT CENTER BUDY	23DAB	BAX		BA	A
A37 THERMOCOUPLE BOSS	23DAC	BAY		BA	O
A37 CENTER BODY EXHAUST	23DAA	BAZ		BA	Α

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000000001111111111222222222	33333333	344444444455555	5555666666666	61717777778
123456789012345678901234567890	12345678	390123456789012345	6789012345678	901234567690
A37 COMBUSTION		88	BA	AAAAAAAA
T37L. ENGINE COMBUSTION		88	BA	AAAAAAAA
T37 ENGINE COMBUSTION	CO. 11.00 - 1.00	68	80	FAAAAAAAA
T37 ENGINE COMPRESSION		BBA	88	AAAAAAAA
A37 AFT INNER FLANGE	238EV	BBA	BB	0
T37 ENGINE COMPRESSION	23021	BBA		F55555555
TATAIR INDUCTION		RRAA	BBA	AAAAAAAA
T37BAFFLE	23844	BBAAA	T. T. T. C.	1
TATOUCT AIR INTAKE	238AA 238AB	BBAAB	BBAA	i
T277110E	2244		BBAA	i
TATHOUGHE ACCEMBLY	238AC 238AD	RRAAD	BBAA	i
TATCUING WANE CTOUT	230AU	BBAAE	BBAA	
TOTOLDE VANE SINOI	23046	56175	BBAA	•
TOTALE TURE	230AF	DDAAF	BBAA	
137 TURQUE TUBE	ZOLAN	TREAT	DDAA	
T37HOUSING ASSEMBLY T37GUIDE VANE STRUT T37CASE T37 TORQUE TUBE T37 TORQUE TUBE T37 BEARING BLOCK T37HOUSING COMPRESSOR	23LAH	BBAAH	BBAA	
137 BEARING BLUCK	ZILAL	BBAAJ	BBAA	
T37HOUSING COMPRESSOR	23CAA	BBAB	BBA	
T37COMPRESSOR ROTOR ASSEMBLY	23CAB	BBAC	BBA	A
T37COMPRESSOR ROTOR T37COMPRESSOR INDUCER T37CAGE TURBINE SHAFT FWD. BRK	23CAC	BBAD	BBA	A
T37COMPRESSOR INDUCER	23CAD	BBAE	BBA	A
T37CAGE TURBINE SHAFT FWD. BRA	NG 23 CAE	BBAF	BD	A
T37BEARING MAIN THRUST	23CAF	BBAG	BD	A
T37HOUSING MAIN THRUSTOIL SEAL	23CAG	BBAH	BDA	A
T370IL SEAL	23CAH	BBAJ	BDA	A
T37HSG.ACC. DRIVE SHAFT GEAR BA	VG23CAJ	BBAK	BE	A
T37BEARING BALL	23CAK 23CAL	BBAL	BD	A
T37BEARING ROLLER T37COUPLING T37RADIAL DIFFUSER T37COMPRESSOR COVER T37COMPRESSOR COVER LAB.SEAL	23CAK 23CAL	BBAM	BD	1
T37COUPLING	23CAN	BBAN	BBA	A
T37RADIAL DIFFUSER	23 CAP	BBAP	BBA	A
T37COMPRESSOR COVER	23CAQ	BBAQ	BBA	A
T37COMPRESSOR COVER LAB.SEAL	23CAR	BBAR	BD	A
T37FRONT SHAFT LABYINTH SEAL	23CAS		BBA	2
T37FRUNT SHAFT LABVINTH SEAL T37FIRE SEAL T37STARTER ADAPTER A37 STAGE 8 VANE RETAINER	23CAT	BBAT	BD BDE BB BDE	Ā
TATSTARTER ANADTER	23 BAG	BBAU	BDE	A
A37 STAGE 8 VANE RETAINER	238F7	BRAV	AA	ō
TATSTARTER DRIVE AIR INLET SEC		BBAV BBAV	BDE	A
		BBAN	BA	2
T37ENGINE MOUNT &LEFT<	23RAC		88	2
	23BEY 23KAC	BBAX		2
		BDAX	BA	
	23BEX 23KAC		88	0
		BBAY	BA	
	23BEW	BBAY	88	0
A37 AFT OUTER FLANGE	23BEU	BBAZ	88	0
TATL. ENGINE IGNITION		888	88 T	COAAAAAAO
A37 INNER FWD FLANGE	23BET	888		δ
T37 ENGINE FUEL CONTROL		8884	BB T	SOOAAAAAAO
T371GNITION SELECT		DDDA	888	FAAAAAAAA
T37 IGNITION SELECT		8884	88C	FAAAAAAAA
T371GNITION SWITCH	42236 23JAC	BBBAA	BBBA	A
T371GNITION COIL	23JAC	8888	888	A

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123456789012345678901234567890 T371GNITOR PLUG	23JAD	BBBC	888	A
T37RELAY	23JAE	BBBD	888	A
T37IGNITION HARNESS	23JAF	BBBE	868	A
T37TIME DELAY RELAY	23JAG	BBBF	888	A
T37L. ENGINE STARTING FUEL		BBC	8B T	OCAAAAAO
A37 DUTER FWD FLANGE	23BES	BBC	68	0
T37STARTING FUEL NAZZLE	23GAE	BBCA	BRC	A
T37SOLENOID STARTING FUEL	23GAJ	BBCB	BBC	A
T37L. ENGINE OPERATING FUEL		880	88	AAAAAAAA
A37 P-3 PAD	23BFR	880	88	0
T37 ENGINE FUEL CONTROL		BBDA	88	SAAAAAAAA
T37L. ENGINE FUEL CONTROL		BBDA	BBC	FAAAAAAAA
T37 ENGINE FUEL CONTROL		BBOA	880	FAAAAAAAA
T37FUEL CONTROL ASSEMBLY	23GAB	BBDAA	BBDA	A
T37FUEL SYSTEM DRAIN	23GAF	BBDAB	BBDA	0
T37FUEL BY-PASS VALVE	23GAG	BBDAC	BBDA	1
T37DELTACATOR	23GAH	BBDAD	BBDA	A
T37FUEL CONTROL LEVER	23LAJ	BBDAE	BBDA	A
T37TROTTLE SELECT		BBDB	BBDA	021111110
T37TROTTLE CONTROL LEVER PILOT	11622	BBDBA	BBDB	2
T37TROTTLE CONTROL LEVER INST.	11622	BBDBB	BBDB	4
T37QUADRANT INSTRUCTOR	11621	BBDBC	8808	4
T37TORQUE TUBE \$PILOT TO INST		88080	8808	
T37TORQUE TUBE	1162A	BBDBE	BBDB	A
T37 THROTTLE LINKAGE	11623	BBDBEZ	BBDB	7
T37BELLCRANKEPILOT QUADRANT	11624	BBDBF	8808	2
T37BELLC-ANK&PILOT QUADRANT	11624	BBDBG	6808	A
T37BELLCRANK&PILOT QUADRANT	11624	BROBH	BBDB	A
T37BELLCRANK&PILOT QUADRANT	11624	BBDBJ	8608	A
T37BELLCRANK&PILOT QUADRANT	11624	BBDBK	BBDB	2
T37BELLCRANKEPILOT QUADRANT	11624	BBDBL	8808	2
T37PUSH ROD &PILOT QUADRANT	11625	BBDBM	8808	2
T37PUSH ROD EPILOT QUADRANT	11625	BBOBN	BBDB	
T37PUSH ROD SPILUT QUADRANT	11625	вере	8808	A
T37PUSH ROD #PILOT QUADRANT	11625	BBDBQ	8806	
T37IDLER	11626	BBDBR	8808	A .
T37CABLE ASSEMBLY LH CONTROLEX		88085	8808	A
T37QUADRANT PILOT	11621	BBOBT	BBDB	0
T37L. ENGINE FUEL PRESSURIZER		BBOC	BBDA	AAAAAAAA
T37FUEL PUMP -1	23GAC	BBDCA	880C	1
T37FUEL PUMP -2	23GAC	ввосв	BBOC	1
T37FUEL FILTER	23GAD	BBOCC	BBDC	2
T37L. ENGINE FUEL DELIVERY CON		8800	BBDC BBDX	AAAAAAAA
T37 ENGINE FUEL DEL CONTROL	44.220	BBDD		FAAAAAAAA
T37MOTURIZED SHUT-OFF VALVE	46228	BBDDA	8800	0
137 ENGINE PUMP DRIVE		BBDF	88DD 88DB	55555555
T37PILOT TROTTLE POS MOVEMENT	23 AAT	BBDG BBDGX	88D	A
T37FUEL CARBON SEAL	23AAU	BBDH	BBD	Ä
	23CAM	880J	880	
T37BUSHING FUEL DIST. TUVE	ZJCAM	0000	000	

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0000000001111111111222222222333333 12345678901234567890123456789012345			
T37 FUEL FLOW INDICATED	BBDX	BBDG	11111111
T37 FUEL FLOW TRANSMITTER 23MG		BBDX	5
T37 FUEL FLOW INDICATOR 23MG		BBOX	3
A37 SCAVENGE PAD 2386		88	ó
T37HOUSING TURBINE 23DA		BD	A
A37 BLEED AIR PAD 2386		88	ō
T37AXIAL DIFFUSER 23DA		88	5
A37 LEAKAGE AIR DUCT PAD 2386		88	ó
T37ADAPTER 23DA		BB	2
A37 FUEL NOZZLE PAD 12 EACH 23BE		88	2
T37DRAIN 230A		88	ō
A37 GEARBOX SUPPORT BRACKET 2386		BB	A
T37INNER SHELL 230A		ВВ	5
A37 HEAT SHIELD 2386	and the state of t	88	5
T370UTER SHELL 2304		BB	5
A37 COMBUSTION VIEWPORT COVER 238		88	ó
T37PRIMARY AIR SWIVEL VANE 230		BB	5
A37 COMBUSTOR DRAIN BOSS 23BF		88	5
T37INTERMEDIATE LABYRINTH SEAL 230		BC	2
A37 IGNITER PLUG BOSS 2386		ВB	5
T37HOSE CDP 23DA		EAAH	5
A37 LOWER SHAFT SHLD INS BLKT23BF		BB	ó
T37FILTER COP 230A		EAAH	2
A37 UPPER SHAFT SHLD INS BLKT23BF		66	ō
T37FUEL DISTRIBUTOR 23EA		880	A
A37 SHAFT SHIELD 23BF		88	Ô
T37FUEL DISTRIBUTOR TUBE 23EA		8BD	A
A37 INNER COMBUSTION CASING 2386		88	Ô
T37BUSHING FUEL TUVE NOZZLE 23EA		BBC	A
A37 INNER COMBUSTION SHELL 238F		88	Ö
T37REAR ENGINE MOUNT BOLT 23KA		88	A
A37 OUTER COMBUSTION SHELL 2386		88	Ô
A37 COWL AND DOME ASSY 238F	A Total Control of the Control of th	88	0
A37 COMBUSTION LINER ASSY 23BF		88	8
A37 LOWER INSULATION BLANKET 2386		88	2
A37 UPPER INSULATION BLANKET 23BF		88	2
A37 CASING OUTER 23BF		88	8
A37 COMPRESSION	BC	BA	AAAAAAAA
A37 COMPRESSION	BC	86	FAAAAAAAAA
A37 COMPRESSION	8C	BS	FAAAAAAAA
A37 COMPRESSION	BC	BVBC	F111111111
A37 BLEED VALVE MOUNT PAD 23BE		BC	1
A37 COMPRESSOR SPACER STAGE 62380		BC BC	o
A37 COMPRESSUR SHAFT AND SEAL2380		BC	0
A37 STAGE 1 RETAINING RING 23BC		BC	Ö
A37 STAGE 1 RETAINING PIN 23BC		BC	0
A37 RUBBING SEAL RUNNER AFT 2380		BC	0
A37 COMPRESSOR DRIVE SHAFT 2380		RC	0
A37 COMPRESSOR BLADE STAGE 8 2380		BC	o
		BC	0
A37 COMPRESSOR BLADE STAGE 7 2380	Z BCAAR	nc nc	•

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COMP SHROUD STAGE 1

STAGE 2 RING SHROUD

STAGE 1 RING SHROUD

VANE SEGMENT STAGE 2

STAGE 4 STATOR SECTOR

STAGE 3 STATOR SECTOR

A37

A37

A37

A37

A37

A37

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123456789012345678901234567890123456789012345678901234567890123456789012345678901 A37 COMPRESSOR BLADE STAGE 6 23BCY BCAAS BC COMPRESSOR BLADE STAGE 5 23BCX BCAAT BC 0 A 37 437 COMPRESSOR BLADE STAGE 4 23BCW BCAAU BC 0 BC 0 COMPRESSOR BLADE STAGE 3 23BCV BCAAV A37 COMPRESSOR BLADE STAGE 2 23BCU COMPRESSOR BLADE STAGE 1 23BCT A37 BCAAW BC A37 BCAAX BC LABYRINTH SEAL STAGE 8 A37 23BCS BCAAY COMPRESSOR SPACER STAGE 723BCQ BC A37 BCAAZ A37 COMPRESSOR SPACER STAGE 523BCL BCAB BC A37 COMPRESSOR SPACER STAGE 423BCJ BCAC BC COMPRESSOR SPACER STAGE 323BCG BCAD BC A37 A37 COMPRESSOR SPACER STAGE 223BCE BCAE BLEED HOLE 23BB7 BCAEJ BC 0 A37 DISK STAGE 8 BCAF A37 23BCR BC BCAG BC DISK STAGE 7 236CP A37 0 A37 DISK STAGE 6 23BCM BCAH BC A37 DISK STAGE 5 **23BCK** BCAJ DISK STAGE 4 BCAK BC 0 A 37 23BCH A37 DISK STAGE 238CF BCAL BC UISK STAGE 2 A37 23BCD BCAM BC SHAFT DISK STAGE 1 BCAN A37 23BCC BC 437 SEAL LABYRINTH 23BCB BCAP BC RUBBER RUNNING SEAL BCAQ BC A37 23BCA A37 COMPRESSOR ROTOR ASSY 23BC0 BCAR BC A37 STATOR VANE KEY BCAS 80 23888 A37 BODY BOLT HOLES 23886 BCAT BC BC A 37 AIR SCROLL 23885 BCAU A37 COMPRESSUR BLADE LAND 23884 BCAV BC A 37 HORIZONTAL FLANGE 23883 BCAW BC A37 AFT FLANGE 23882 BCAX BC 0 A37 FORWARD FLANGE 23881 BCAY INSULATION BLANKET 238BZ BCAZ BC A37 A37 COMP SHROUD STAGE 2 BC 23BBX BCB

A37 VANE SEGMENT STAGE 1 2388L BCG BC VANE SEGMENT STOP STAGET 23BBT BC 0 A37 BCH VANE SEGMENT STOP STAGE6 23BBS A37 BCJ VANE SEGMENT STOP STAGES 23BBR BC A37 BCK VANE SEGMENT STOP A37 STAGE4 23880 BCL BC VANE SEGMENT STOP STAGES 2388P A37 BCM BC A37 VANE SEGMENT STOP STAGEZ 238BM BCN BC VANE SEGMENT STOP STAGEL 23BBK BC A37 BCP A37 STAGE 7 STATUR SECTOR 23BBJ BCQ BC A37 STAGE 6 STATOR SECTOR 23BBH BCR BC A37 STAGE 5 STATOR SECTOR 23BBG BC BCS

2388V

2388W

23BBU

238BN

23BBF

23ABE

BCC

BCD

BCE

BCF

BCT

BCU

BC

BC

BC

BC

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00000000011111111112222222222	3333333	334444444	444555555	555566	666666	6677777	777773
123456789012345678901234567890							
A37 STAGE 2 STATUR SECTOR	23880	BCV		BC		0	
A37 STAGE 1 STATOR SECTOR	238BC	BCW		BC		0	
A37 COMP CASING LOWER HALF	23888	BCX		BC		A	
A37 COMP CASING UPPER HALF	23BBA	BCY		BC		A	
A37 COMPRESSOR STATOR ASSY	23880	BCZ		BC		A	
A37 FUEL DELIVERY		BD		88		AAA	AAAAAA
T37L. ENGINE RUTATION		80		BBA		AAA	AAAAAA
T37 ENGINE ROTATION		BD		BE		FAAA	AAAAA
T37L. ENGINE COOLING DIL DIST.		BDA		BD		999	999999
T37ANTILEAK VALVE	23HAJ	BDAA		BDA		1	
T370IL PRESSURE LINE	23HAN	BDAB		BDA		A	
T370IL SCAVANGE LINES	23HAP	BDAC		BOA		1	
T370IL FILTER ASSY	23HAC	BUAD		BDB		5	
T37QUICK DISCONNECT	23KAD	BUAE		BUA		A	
T37L. ENGINE COOLING OIL REG.		808		BOA		555	555555
T378Y-PASS VALVE	23HAE	BDBA		BDB		A	
T37PRESSURE REGULATOR VALVE	23HAH	BDBB		BCB		A	
T37 ENGINE UIL PRESS.		BDC		BDA		AAA	AAAAA
T37L. ENGINE OIL PRESSURIZATIO	N	BOC		806		FAAA	AAAAAA
137 ENGINE OIL PRESSURIZED		BDC		BDX			AAAAAA
T37PUMP ASSEMBLY OIL	23HAB	BDCA		BDC		A	
T37SHAFT OIL PUMP	23HAD	BDCB		BDC		A	
A37 FUEL PRESSURE & DRAINED		800		BD		100	000001
T37L. ENGINE OIL SUPPLY		BDO		BUC			AAAAA
T37ACCUMULATOR DRAIN VALVE	23HAF	BDDA		BDD		C	
T37ACCESSORY ACCUMULATOR	23HAG	BDDB		BDB		1	
T370IL TANK	23HAK	BDDC		BDD		Α .	
T3701L TANK FILLER	23HAL	BDDD		BOD		0	
T370IL TANK PENDULOUS HOSE	23HAM	BDUE		BUD		A	
T37GIL SUPPLY LINE	23HAQ	BUDF		BDU		A	
T37ANTILEAK VALVE	23AAR	BDDG		BDD		1	
A37 PRESS./DRAIN VALVE ASSY	23EAC	BDOX		BOU		A	
A37 FUEL CONTROL AND DIST.		BDE		BA		SAAA	AAAAAA
T37 START TORQUE		BDE		80	T	000	000630
A37 FUEL CONTROL AND DIST.		BDE		BDD		FAAA	AAAAAA
A37 FUEL CONTROL AND DIST.		BDE		BDG		FAAA	AAAAAA
A37 FUEL CUNTROL AND DIST.		BDE		BDXZ		FAAA	AAAAA
A37 FUEL CUNTROL AND DIST.		BDE		BLD			AAAAAA
A37 FUEL CONTROL AND DIST.		BDE		BVBB		FAAA	AAAAA
T37STARTER COVER	23KAB	BDEA		BDE		i	
A37 HIGH PRESSURE FUEL FILTE	R23EAR	BDEV		BDE		0	
A37 FUEL HOSE	23EAL	BDEW		BDE		2	
A37 FUEL CONTROL TUBE	23EAK	BDEX		BOE		2	
A37 FUEL CONTROL FILTER	23EAG	BDEY		BDE		0	
A37 FUEL CONTROL	23EAA	BDEZ		BDE		A	
T37 ENGINE START SELECT		BDF		BBBA		AAA	AAAAA
A37 FUEL PRESSURE GENERATED		BDF		BUE			AAAAA
T37L. ENGINE START SELECT		BDF		BOE			AAAAA
T37SWITCH STARTER	42235	BDFA		BOF		A	
T37STARTER RELAY	42213	BDFB		BDF		A	

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000000001111111111122222222233	3333333	34444444445555555	55566666666	6777777778
1234567890123456789012345678901	2345678	901234567890123456	5789012345678	901234567890
A37 FUEL PUMP FILTER	23EAH	BDFX	BDF	0
A37 FUEL PUMP	23EAB	BDFZ	BDF	A
137INLET NOZZLE TURBINE	23EAA	BDG	80	A
A37 OVERSPEED CONTROLLED		BDG	BDE	011111110
A37 ENGINE GOVERNOR	23EAJ	BDGZ	BDG	2
T37TURBINE ROTOR HUB	23EAB	BDH	8D	2
A 37 FUEL PRESSURE SENSED		BDH	BDE	AAAAAAAA
T37BL ADES	23EAC	BDJ	BD	A
A37 COMPRESSOR INLET TEMP SENSE		BDJ	BDE	55555555
A37 SENSOR WIRE HARNESS	23HAG	BDJY	BDJ	5
A37 T-2 SENSOR	23HAM	BDJZ	BDJ	A
T37FRONT SHAFT	23EAD	BOK	BD	A
T37INTERMEDIATE SHAFT	23EAE	BOL	BD	A
T37REAR SHAFT	23EAF	BDM	BD	A
T37BALANCE ASSEMBLY	23EAG	BON	80	5
T37DISC TURBINE LABYINTH	23EAH	BDP	80	5
T37COMPRESSOR SPACER	23EAJ	BDQ	BD	2
137 TACHOMETER INDICATION		BDUG	BBDG	111111111
T37 TACHOMETER INDICATOR	23MAA	BDUGA	BDUG	8
137 EXHAUST GAS TEMP IND		BOUH	BBDG	111111111
T37 EXHAUST GAS TEMP INDICATOR	ZZMDA	BOUHA	BDUH	A
T37 TACHOMETER SIGNAL GENERATE		BOUJ	BDUG	AAAAAAAA
137 TACHOMETER GENERATOR	23JAB	BOUJA	BDUJ	8
T37 EXHAUST GAS TEMP SENSED		BDUK	BOUH	AAAAAAAA
T37 EXHAUST GASSPOOL RESISTOR	23MDB	BDUKA	BDUK	8
137 THERMOCOUPLE HARNESS	23MDC	BDUKB	BDUK	8
T37 THERMOCOUPLE PROBE	23MDD	BOUKC	BDUK	8
137 FIREWALL CONNECTOR	23MDE	BDUKD	BDUK	8
A37 LFT FUEL NUZZLES 6 EACH	23EAF	BOW	88	1
A37 LFT FUEL NUZZLE MANIFOLD	23EAE .	BDX	88	A
T37 OIL PRESSURE INDICATED		BDX	BBDG	22222222
A37 FUEL FLOW INDICATED		BDXX	BR I BDF	
A37 FUEL FLOW INDICATOR	23KDQ	BDXXZ	BUXX	3
137 OIL PRESSURE TRANSMITTER	23MBB	BDXY	BDX	5
T37 OIL PRESSURE INDICATOR	23MBA	BDXZ	BDX	3
A37 FUEL FLOW SENSED AND XMITTO		BDXZ	BDXX	
A37 FUEL FLOW XMITTER	23KDB	BDXZZ	BDXZ	7
A37 RT FUEL NOZZLES 6 EACH	23EAF	BDY	88	1
A37 RT FUEL NOZZLE MANIFOLD	23EAD	BDZ	BB	A
T37 ENG. ACCESSORY DRIVE		BE	88	SAAAAAAAA
T37 ENG. ACCESSORY DRIVE		8E	BBDA	FAAAAAAAA
T37 ENG. ACCESSORY DRIVE		BE	BBDC	FAAAAAAAA
T37 ENGINE ACCESSORY DRIVE		BE	BBDF	FAAAAAAAA
T37L. ENGINE ACCESSORY DRIVE		BE	BOC	FAAAAAAAAA
T37 ENG. ACCESSORY DRIVE		BE	BDUJ	FAAAAAAAA
T37 ENG. ACCESSORY DRIVE		8E	UDG	AAAAAAAA
T37 ENG. ACCESSORY DRIVE		BE	UHAB	AAAAAAAA
A37 IGNITION SUPPLIED		BEA	BB T	OCAAAAOO
TETHOUSING ACCESSORY DRIVE CASE		BEA	BE	A
A37 IGNITION CIRCUIT BREAKER	23HAZ	BEAX	BEA	5

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123456789012345678901234567890	1234567		90123456789012345	678901234567890
A37 ' PLUG MAIN IGNITOR	23HAD	BEAY	BEA	2
A37 LEAD MAIN IGNITION	23HAB	BEAZ	BEA	2
T37GEAR ACCESSORY DRIVEN SPRU	23AAB	BEB	BE	A
A37 IGNITION GENERATED		BEB	BEA	AAAAAAAA
A37 IGNITION EXCITER	23HAA	BEBZ	BEB	A
T37SPACER	23AAC	BEC	BE	
A37 IGNITION CONTROLLED		BEC	BEB	
A37 IDLE CUT OFF SWITCH	9923A	BECZ	REC	5
A37 IGNITION POWER DISTRBTED		BED	BEC	
137SHAFTGEAR STARTER/GEN. DRIV		BED	UDG	A
437 IGNITION CONTROL RELAY	23HAY	BEDZ	BED	5
T37GEAR ASSY FUEL PUMP DRIVEN	23AAE	BEE	BBDF	A
A37 IGNITION HOLD TIMING		BEE	BED	111111111
A37 TIME DELAY RELAY	23HA1	BEEZ	BEE	5
T37GEAR FUEL PUMP DRIVEN	23AAF	BEF	BADF	A
A37 ENGINE START COMMAND		BEF	BED	
T37GEAR FUEL CONTROL UNIT IDLE	R23AAG	BEG	BBDA	A
A37 LEFT START COMMAND		BEG		BEH 11111111
AST PILOT START SWITCH	42235	BEGZ	BEG	Λ
T37GEAR FUEL CONTROL UNIT DRIV	E23AAH	BEH	BBOA	A
A37 RIGHT START COMMAND		BEH	BEF	111111111
A37 CO-PILOT START SWITCH	42235	BEHZ	BEH	2
T37GEAR FUEL PUMP DRIVE	23AAJ	BEJ	BAUF	A
A37 IGNITION POWER CONTROLLED		BEK	BED	AAAAAAAA
T37GEAR FLUID POWER PUMP DRIVE		BEK	UHAB	A
A37 POWER TRANSFER RELAY	42213	BEKZ	BEK	7
T37GEAR OIL PUMP DRIVE SPUK	23AAL	BEL	BDC	Α
T37SHAFTGEAR OIL PUMP DVN.BVL.	23AAM	BEM	BDC	A
T37BEARING BALL	23AAN	BEN	BE	A
137 SHAFT ACCESSORY DRIVE	23AAP	BEP	BE	A
T37SHAFT GEAR OIL PUMP DRIVE	23 AA Q	BEQ	BDC	A
137COVER ACCESSORY DRIVE	23AAS	BER	86	1
T37GEAR TACHOMETER DRIVE	23AAV	BES	BDUJ	A
A37 ENGINE FUEL DELIVERED		BF	В	SOBAAAAAOO
137 ENGINE FUEL DELIVERED		BF	8	SOBAAAAAUU
137 ENGINE FUEL DELIVERED		BF	8800	FAAAAAAAA
A37 ENGINE FUEL DELIVERED		BF	BQA	FAAAAAAAA
A37 MAIN FUEL SUPPLIED		BFA	BF	AAAAAAAA
A37 MAIN FUEL SUPPLIED		BFA	BFAX	FAAAAAAAA
A37 MAIN FUEL SUPPLIED		BFA	BFN	FAAAAAAAA
T37 FUEL BOOST ACTIVATION		BFA	BFX	
A37 MAIN FUEL QUANTITY SENSED		BFAX	BFG	717777177
A37 FUSE-TANK QUANTITY PROBE		BFAXZ	BFAX	A
A37 DE-FUELING VALVE	46223	BFAY	BFA	0
A37 FUSELAGE FUEL CELL	46121	BFAZ	BFA	A
T37 BOOST PUMP SWITCH	46316	BFAZ	BFA	2
A37 RESERVUIR	46112	BFAZZ	BFA	2
T37 MAIN FUEL SUPPLIED		BFB	RF	AAAAAAAA
A37 FUEL TRANSFERRED		BFB	RFA	008888800
T37FUSELAGE CELL	46121	BFBA	BFB	A

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00000000111111111122222222233				
1234567890123456789012345678901				
T37DEFUELING VALVE	46223	0.00	BFB	0
T37FUSELAGE VENT VALVE	46227	BFBC	BFB	2
A37 SELECTOR VALVE	46222	BFBX	BFB	A
A37 FOUR LEVEL FLOAT SW	46315	BFBY	BFB	A
A37 FUEL SELECTOR RELAY	46215	8687	BF8	5
A37 WING FUEL TRANSFERRED		BFC	BFB	000577555
137 WING FUEL TRANSFER		BFC	BFB # OFF	008888800
A37 GRAVITY FUEL TRANSFER		BFCA	BFC K BFC	
A37 ANNUNCIATUR PANEL	4431A	BFCAW	BFCA	2
A37 MASTER CAUTION LIGHT	44318	BFCAX	BFCA	1
A37 GRAVITY TRANS LIGHT	4431A	BFCAY	BFCA	1
A37 BY-PASS VALVE, GRAVITY	40224	BFCAZ	BECA	A
A37 PROPORTIONAL TRANSFER		BFCB	BFC BFC	
A37 PROPORTIONAL TRANSFER		BFCB	BFD	AAAAAAAA
A37 BY-PASS VALVE, PROP FEED		BFCBX	BFCB	5
	46212	BFCBY	BECB	2
A37 PROPORTIONER MOTOR 2EA		BFCBZ	BFCB	5
137 MUTORIZED SHUTOFF VALVES	40220	BFCZ BFD	BFC BFB	The second second second second
A37 PYLON FUEL TRANSFERRED		8FD		001000000
137 GRAVITY TRANSFER		BFDA	BFC K BFH	
A37 PYLON FUEL AVAILABLE	44 224			ΑΑΑΛΑΑΑΑ
137GRAVITY FEED A37 PYLUN FUEL AVAILABLE	46224	BFDA BFDA	BFD BFDAX	FAAAAAAAA
			BFDAY	
A37 PYLON FUEL AVAILABLE		BFDA	BFE	FAAAAAAAA
A37 PYLON FUEL LEVEL SENSED A37 4-LEVEL FLOAT SWITCH	46315	BFDAXZ	BFDAX	111111111
	40313	BFDAY	FAB	FOOODCOCAO
A37 PYLON FUEL JETTISON A37 PYLON SUPPLY AVAIL EA WING		BFDB	BFDA	55555555
A37 INTM PYLON AIR TUBE		BFDBJ	BFDB	5
A37 INTM PYLON QWIK DONX		BFDBK	BFUB	2
	46133	BFDBL	BFDB	ō
A37 INTH PYLON TANK	46132	BFDBM	BFDB	A
A37 INTH PYLON SWAYBRACE		BFDBN	BFDB	2
A37 INTH PYLON FAIRING	11310	BFDBP	BFD8	ō
A37 INTM PYLON	11318	BFDBQ	BFOB	8
A37 INBD PYLON AIR TUBE		BFDBR	BFDB	5
A37 INBD PYLON QWIK DENX		BFDBS	BFDB	2
A37 INBO PYLON TANK FIN		BEDBI	BFDB	ō
A37 INBD PYLON TANK	46132	BFDBU	BFDB	A
A37 INBD PYLON SWAYBRACE		BFDBV	BF08	2
A37 INBD PYLON FAIRING	1131C	BFDBW	BFDB	ō
A37 INBD PYLON	11318	BFDBX	BFDB	8
A37 BY-PASS TUBE ASSY	9946H	BFDBY	BFDB	5
A37 CROSS-OVER TUBE	9946G	BFDBZ	BFDB	5
T37 GRAVITY FEED MICRO SWITCH		BFDX	BFD	2
T37 FUEL LEVEL SENSED		BFE	8FD	111111111
137 FUEL LEVEL SENSED		BFE	BEXW	FAAAAAAAA
A37 FUEL MGT INFO PROVIDED		BFE	BFXY	AAAAAAAA
137FLOAT SWITCH ASSEMBLY	4631B	BFEA	BFE	8
T37LOW LEVEL RELAY	46314	BFEB	BFE	A

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0000000011111111112222222222	3333333	33444444444455555	55555666666666	6777777778
123456789012345678901234567890				
A37 ANUNCIATOR PANEL	4431A	BFEZ	BFE	2
A37 TRANSFER SOURCE SELECT		BFF	BFB	77177777
A37 TRANSFER SOURCE SELECT	-	BFF	BFC	FAAAAAAAA
A37 TRANSFER SOURCE SELECT		BFF	BFD	FAAAAAAAA
A37 TRANSFER SOURCE SELECT		BFF	BFE	F111111111
A37 TRANSFER SOURCE SELECT		BFF	BFWB	FAAAAAAAA
A37 TRANSFER SOURCE SEL SW	46318	BFFZ	BFF	2
A37 FUEL QUANTITY DATA DISP		BFG	BFXX	AAAAAAAA
A37 TRANSFER RELAY	51726	BFGV	BFG	5
A37 FUEL IND. TEST SWITCH	51725	BFGW	BFG	0
A37 FUEL IND. POWER UNIT	51724	BFGX	8FG	A
A37 FUEL QTY SELECT SWITCH	51723	BFGY	BFG	5
A37 FUEL QTY INDICATOR	51721	BFGZ	BFG	3
T37 PROPORTIONAL TRANSFER		BFH	BFC BFC	111111111
A37 WING FUEL QUANTITY SENSED		BFH	BFG	333333333
T37PROPORTIONER PUMP	46212	BFHA	BFH	δ
T37PROPORTIONER MOTOR	46312	BFHB	BFH	8
A37 RIGHT CELL 2 OTY PROBE	51722	BFHW	BFH	2
A37 RIGHT CELL 5 OTY PROBE	51722	BFHX	BFH	2
A37 LEFT CELL 2 QTY PROBE	51722	BFHY	BFH	2
A37 LEFT CELL 5 GTY PROBE	51722	BFHZ	BFH	2
A37 GRAVITY FUEL SELECT		8FJ	BFCA	111111111
137 CONTROLLED FUEL TRANSFER		BFJ	BFH	AAAAAAAA
A37 GRAVITY FEED RELAY	46313	BFJY	BFJ	A
T37 FLOAT SW ASSY 4631C	46318	BFJZ	BFJ	8
A37 GRAVITY FUEL SEL SWITC	H46311	BFJZ	BFJ	A
T37 FLOAT SW ASSY 46318	4631C	BFJZA	BFJ	8
A37 FAIL SAFE GRAVITY XFER		BFK	BFCA	111111111
T37 TRANSFER SELECT		BFK	BFU	FAAAAAAAA
T37 TRANSFER SELECT		BFK	BFJ	AAAAAAAA
T37GRAVITY SWITCH	46311	BFKA	BFD	8
T37GRAVITY FEED RELAY	46313	BFKB	BFO	5
A37 FLOAT SWITCH ASSY L-4	46315	BFKZ	BFK	A
T37 WING FUEL SUPPLY		BFL	BFC	SAAAAAAAA
T37WING FUEL SUPPLY		BFL	BFD	FAAAAAAAA
T37WING FUEL SUPPLY		BFL	BFJ	FAAAAAAAAA
A37 FUEL LOW WARNING		BFM	BFG	111111111
T37RIGHT WING FUEL SUPPLY		BFM	BFL	55555555
T37 RIGHT WING FUEL SUPPLIED		BFM	BFXY	FAAAAAAAA
T37RIGHT LEADING EDGE CELL#2	46125	BFMA	BFM	5
T37INTERCONNECT #4 TO #2	46114	BFMAA	BFM	5
T37CHECK VALVE #4 TO #2	46226	BFMAB	BFM	0
T37VENT LINE #4 TO #2	46116	BFMAC	BFM	0
T37RIGHT INTERSPAR CELL #4	46124	BFMB	BFM	5
T37INTERCUNNECT #5 TO #4	46114	BEMBA	BFM	2
T37INTERCONNECT 15 TO 14	46114	BFMBB	BFM	2
T37INTERCONNECT 13 TO 14	46114	BFMBC	BFM	2
T37CHECK VALVE 15 TO 14	46226	BFMBD	BFM	0
T37CHECK VALVE 15 TO 14	46226	BFMBE	BFM	0
T37CHECK VALVE 13 TO 14	46226	BFMBF	BFM	0

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000000001111111111122222222223	3333333	344444444455555	55555666666666	667777777778
123456789012345678901234567890	12345678	9012345678901234	5678901234567	8901234567890
T37VENT LINE 5 TO 4	46116	BFMBG	BFM	2
T37ACCESS COVER CELL 14	46115	BFMBH	BFM	0
T37RIGHT INTERSPAR CELL 15	46124	BFMC	BFM	4
T37INTERCONNECT 6 TO 5	46114	BFMCA	BFM	1
T37INTERCONNECT 6 TO 5	46114	BFMCB	BFM	1
T37CHECK VALVE 16 TO 15	46226	BFMCC	BFM	0
T37CHECK VALVE 16 TO T5	46226	BFMCD	BFM	0
T37VENT LINE 16 TO 15	46116	BFMCE	BFM	2
T37ACCESS COVER CELL T6	46115	BFMCF	BFM	0
T37RIGHT TIP TANK 13	46126	BFMD	BFM	4
T37INTERCONNECT 6 TO 3	46114	BFMDA	BFM	2
T37CHECK VALVE 16 TO 13	46226	BFMDB	BFM	0
T37VENT LINE 7 TO 3	46116	BFMDC	BFM	2
T37PLUNGER ROD FILLER CAP	46111	BFMDD	BFM	C
T37FILLER CAP	46113	BFMDE	BFM	5
T37DUMP TIP TANK	4622C	BFMDF	BFM	5
T37FILLER ASSEMBLY	46117	BFMDG	BFM	C
T37RIGHT INTERSPAR CELL 16	46124	BFME	BFM	2
T37INTERCONNECT 7 TO 16	46114	BFMEA	BFM	2
T37INTERCONNECT 7 TO 16	46114	BFMEB	BFM	2
T37CHECK VALVE 17 TO T6	46226	BFMEC	BFM	0
T37CHECK VALVE 17 TO 16	46226	BFMED	BFM	0
T37VENT LINE 7 TO 6	46116	BFMEE	BFM	2
T37ACCESS COVER CELL 16	46115	BFMEF	BFM	0
T37RIGHT INTERSPAR CELL 17	46124	BFMF	BFM	2
T37WING VENT VALVE	4622A	BFMFA	BFM	0
T37ACCESS COVER CELL 17	46115	BFMFC	BFM	Ō
A37 ANNUNCIATOR PANEL	4431A	BFMX	BFM	2
T37 FLOAT SWITCH	46228	BFMX	BFM	0
A37 MASTER CAUTION LIGHT	44318	BFMY	BFM	1
	46315	BFMZ	BFM	A
A37 TRANSFER LEVEL CONTROL		BFN	BFCB	AAAAAAAA
137 LEFT WING FUEL SUPPLY		BFN	BFL	55555555
T37 LEFT WING FUEL SUPPLIED		BFN	BFXY	FAAAAAAAA
T37 PLUNGER ROD FILLER CAP	46111	BFNA	BFN	0
T37 ACCESS COVER CELL 7	46115	BENAM	BFN	0
T37 WING VENT VALVE 46222	4622A	BFNAN	BFN	0
T37 LEFT INTERSPAR CELL 7	46122	BENAP	BFN	2
T37 ACCESS COVER CELL 6	46115	BENAG	BFN	0
T37 VENT LINE 7 TO 6	46116	BENAR	BFN	2
T37 CHECK VALVE 7 TO 6	46226	BENAS	BFN	0
T37 CHECK VALVE 7 TO 6	46226	BENAT	BFN	G
137 INTERCONNECT 7 TO 6	46114	BENAU	BFN	2
137 INTERCONNECT 7 TO 6	46114	BENAV	BFN	2
T37 LEFT INTERSPAR CELL 6	46122	BENAW	BFN	2
137 FILLER ASSY	46117	BENAX	BFN	0
T37 TIP DUMP VALVE	4622C	BENAY	BFN	5
T37 FILLER CAP	46113	BFNAZ	BFN	0
137 FLOAT SWITCH	46228	BFNAZZ	BFN	0
T37 VENT LINE 7 TO 3	46116	BFNB	BFN	2

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0000000001111111112222222223333333333444444445555555555					
12345678901234567890123456789012345678901234567890123456789012345678901234567890					
T37 CHECK VALVE 6 TO 3 462		BFN	0		
T37 INTERCONNECT 6 TO 3 461		BFN	2		
T37 LEFT TIP TANK .3 461		BFN	4		
T37 ACCESS COVER 5 461	15 BFNF	BFN	0		
T37 VENT LINE 6 TO 5 461		BFN	2		
137 6 10 5 462	26 BFNH	BFN	0		
T37 CHECK VALVE 6 TO 5 462	26 BFNJ	BFN	O		
137 INTER CONNECT 6 TO 5 461	14 BFNK	BFN	2		
T37 INTER CONNECT 6 TO 5 461	14 BFNL	BFN	2		
T37 LEFT INTERSPAR CELL 5 461	12 BFNM	BFN	4		
T37 ACCESS COVER CELL 4 461	15 BFNN	BFN	0		
137 VENT LINE 5 TO 4 461	16 BFNP	RFN	2		
T37 CHECK VALVE 3 TO 4 462	26 BFNQ	BFN	0		
T37 CHECK VALVE 5 TO 4 462	26 BFNR	BFN	0		
T37 CHECK VALVE 5 TO 4 462	26 BFNS	BEN	O		
T37 3 TU 4 461	14 BFNT	BFN	2		
T37 INTER CNX 5 TO 4 461	14 BFNU	BFN	2		
T37 LEFT INTERSPAR CELL 4 461	22 BFNV	BFN	5		
T37 VENT LINE #4 TO #2 461	16 BFNW	BFN	2		
T37 CHECK VALVE #4 TO #2 462	26 BFNX	BFN	0		
T37 INTER CNX #4 TO #2 461	14 BFNY	BFN	5		
T37 LEAD EDGE CELL 461	23 BFNZ	BFN	5		
A37 FLOAT SWITCH ASSY L-2-3463	15 BFNZ	BFN	A		
A37 NORMAL TRANSFER SELECT	BFP	BFN	AAA AAA AAA		
A37 TRANSFER MODE SELECT	BFPA	BFJ	FAAAAAAAA		
A37 TRANSFER MODE SELECT	BFPA	BFP			
A37 TRANSFER MUDE SELECT SW 463	1B BFPAZ	BFPA	Α		
A37 WING INT FUEL AVAILABLE	BFQ	BFH	FAAAAAAAA		
A37 WING INT FUEL AVAILABLE	BFQ	BFT	888888888		
A37 EACH WING SUPPLY AVAILABLE	BFRA	BFQ	55555555		
A37 CHECK VALVE CELL 6-5 2EA462		BFRA	0		
A37 FILLER CAP 461		BFRA	0		
A37 FILLER ASSY 461		BFRA	0		
A37 ACCESS COVER CELL 7 461		BFRA	0		
A37 ACCESS COVER CELL 6 461		BFRA	0		
A37 ACCESS COVER CELL 5 461		BFRA	0		
A37 ACCESS COVER CELL 4 461		BFRA	C		
A37 CHECK VALVE CELL 7-6 2E462		BFRA	0		
A37 CHECK VALVE CELL 6-3 462		BFRA	C		
A37 CHECK VALVE CELL 3-5 462		BFRA	0		
A37 CHECK VALVE CELL 3-4 462		BFRA	0		
A37 CHECK VALVE CELL 5-4 2EA462		BFRA	0		
A37 CHECK VALVE CELL 4-2 462		BERA	0		
A37 VENT LINE CELL 7-6 461	A TO THE PERSON NAMED IN COLUMN TO T	BFRA	1		
A37 VENT LINE CELL 6-3 461		BFRA	1		
A37 VENT LINE CELL 6-5 461		BFRA	1		
A37 VENT LINE CELL 4-5 461 A37 VENT LINE CELL 4-2 461		BFRA	1		
		BFRA	1		
A37 INTER-SPAR CELL 7 46I A37 INTER-SPAR CELL 6 461		BFRA BFRA	2 .		
ASI INTER-SPAN CELL 0 401	22 DF NAM	OFNA	•		

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00000000011111111112222222223333333334444444444					
1234567890123456789012345678901234567	890123456789012349	678901234567	8901234567890		
A37 INTER-SPAR CELL 5 46122	BFRAN	BFRA	2		
A37 INTER-SPAR CELL 4 46122	BFRAP	BFRA	A		
A37 LE CELL32 46123	BFRAQ	BFRA	1		
A37 LE CELL 2 46123	BFRAR	BFRA	A		
A37 CELL 3- CELL 5 INTCNX 46114	BFRAS	BFRA	2		
A37 CELL 7- CELL 6 INTCNX 2EA46114	BFRAT	BFRA	2		
A37 CELL 6- CELL 3 INTCNX 46114	BFRAU	BFRA	2		
A37 CELL 6- CELL 5 INTCNX 2EA46114	BFRAV	BFRA	2		
A37 CELL 3- CELL 4 INTCNX 46114	BERAW	BFRA	2		
A37 CELL 5- CELL 4 INTCNX 2EA46114	BFRAX	BFRA	2		
A37 CELL 4- CELL 2 INTCNX 46114	BFRAY	BFRA	8		
A37 CELL 2- FUSELAGE INTCNX 46114	BFRAZ	BFRA	8		
A37 AIRCRAFT REFUELED	BFRF	BFA	000001600		
A37 AERIAL REFUEL	BEREA	BFRF	AAAAAAA		
A37 AERIAL REFUEL	BFRFA	BFRFJ	FAAAAAAAA		
A37 AERIAL REFUEL	BFRFA	BEREX	FAAAAAAAA		
A37 RT PYLON FLOAT SWITCH 46421	BEREAA	BFRFA	3		
A37 RT PYLON CHECK VALVE 46413	BEREAAX	BEREA	0		
A37 RT PYLON PRE-CHECK VALVE 46225	BEREAAY	BFRFA	0		
A37 RT PYLON SHUT-OFF VALVE 9946J	BEREAAZ	BEREA	0		
A37 RT MAIN CHECK VALVE 46413	BFRFAB	BFRFA	0		
A37 RT MAIN PRE-CHECK VALVE 46225	BEREAC	BFRFA	0		
A37 RT MAIN SHUT-OFF VALVE 9946J	BEREAD	BFRFA	0		
A37 RT MAIN FLOAT SWITCH 46421	BERFAE	BERFA	0		
A37 RT TIP CHECK VALVE 46413	BEREAF	BERFA	0		
A37 RT TIP PRE-CHECK VALVE 46225	BEREAG	BERFA	Ü		
A37 RT TIP SHUT-CFF VALVE 9946J	BEREAH	BFRFA	1		
A37 RT TIP FLOAT SWITCH 46421	BFRFAJ	BERFA	1		
A37 LEFT PYLON CHECK VALVE 46413	BEREAK	BERFA	0		
A37 LEFT PYLON PRE-CHECK VALVE46225	BFRFAL	BFKFA	0		
A37 LEFT PYLON SHUT-OFF VALVE 9946J	BEREAM	BEREA	0		
A37 LEFT PYLON FLUAT SWITCH 46421	BEREAN	BERFA	O		
A37 LEFT MAIN PRE CHECK VALVE 46225	BEREAP	BERFA	0		
A37 LEFT MAIN SHUT-OFF VALVE 9946J	BERFAU	BFRFA	0		
A37 LEFT MAIN FLOAT SWITCH 46421	BEREAR	BERFA	0		
A37 LEFT TIP CHECK VALVE 46413	BEREAS	BFRFA	O.		
A37 LEFT TIP PRE-CHECK VALVE 46225	BEREAT	BERFA	Û.		
A37 LEFT TIP SHUT-OFF VALVE 9946J	BEREAU	BERFA	1		
A37 LEFT TIP FLOAT SWITCH 46421	BFRFAV	BFRFA	1		
A37 AIR REFUEL MANIFOLD 46414	BEREAW	BEREA	5		
A37 AIR REFUEL CHECK VALVE 46413	BFRFAX	BERFA	0		
A37 AIR REFUEL PROBE 46412	BEREAY	BEREA	8		
A37 AIR REFUEL BOOM 46411	BFRFAZ	BFRFA	8		
A37 AIR REFUEL CONTROLLED	BFRFB	BEREA	5		
A37 AIR REFUEL SWITCH 46421	BEREBZ	BEREB			
A37 GROUND RE-FUEL	BFRFG	BFRF	000000000		
A37 GRAVITY RE-FUEL	BEREHY	BEREG	, 111111111		
A37 FILLER CAP 46113	BEREHY	BFRFH BFRFH	1		
A37 FILLER ASSY 46117 A37 SINGLE POINT REFUEL	BFRFHZ	BEREG			
AST SINGLE POINT PEPUEL	BFRFJ	OFREG	111111111		

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00000000111111111122222222233333	33333444444444	5555555556666	6666667	1777777778
1234567890123456789012345678901234				
A37 GROUND REFUEL ADAPTER 994		BFRFJ	i	
A37 AIR REFUEL DATA DISPLAYED	BEREX	BEREY		111111111
A37 AIR REFUEL LIGHTS 464	22 BFRFXZ	BFRFX		
A37 PILOT REFUEL ACTION	BFRFY	BEREB		33333333
A37 WING FUEL SUPPLEMENT AV	BFS	BFSX		FAAAAAAAA
A37 WING FUEL SUPPLEMENT AV	BFS	BFT		22222222
A37 EACH TIP SUPPLY TRANS	BESA	BFS		55555555
A37 EACH TIP SUPPLY TRANS	BESA	BESE		FAAAAAAAAA
A37 TIP TANK DUMP VALVE 462		BFSA	9	
A37 TIP TANK FILLER ASSY 461		BFSA	0	
A37 TIP TANK VENT LINES 461		BESA	2	
A37 TIP TANK TO CELL 7 CHX 461		BESA	A	
A37 TIP TANK RELAY 462	15 BESAW	BFSA	A	
A37 TIP TANK XFER PUMP 462	14 BFSAX	BFSA		
A37 TIP TANK FIN 461		BFSA		
A37 TIP TANK 461		BESA	A	
A37 EACH TIP FUEL DUMPED	BFSE	FAB	K BFS	0000000A3
A37 DUMP SWITCH 463		BESE	A	
A37 DUMP VALVE 462	28 BESEZ	BESE		
T37 FUEL BOOST STATUS	BEST	BFA	I BFX	111111111
T37 BOOST FAIL LIGHT 443		BFST	2	
137 BOOST PUMP PRESS. SWITCH 463		BEST	•	
A37 TIP TANK FUEL QTY SENSED	BFSX	BFE		111111111
A37 R TIP PRESSURE SWITCH 463		BFSX	5	
A37 L TIP PRESSURE SWITCH 463		BFSX	5	
T37 BYPASS INDICATOR 462		BF	0	
A37 WING FUEL SUPPLY AVAILABL	BFT	BFC		AAAAAAAA
A37 POSITIVE FUEL PRESSURE	BFU	BF		AAAAAAAA
T37 T-HANDLE 463	18 BFU	BF	C	
A37 GRAVITY PRESSURE AVAILBLE	BFUA	BFU	K BFV	AAAAAAAA
A37 FLIGHT RESTRICTIONS OBSVD	BFUB	BFUA		AAAAAAAA
A37 PILOT ACTION	BFUC	BFUB		AAAAAAAA
A37 PILOT ACTION	BFUC	BFVA		FAAAAAAAA
A37 FUSELAGE VENT VALVE 462	27 BFUZ	BFU	5	i
T37 DRAIN VALVE 462	233 BFV	BF	0	
A37 BOOST PUMP PRESSURE SUPP	BFV	BFU	BFUA	111111111
A37 BOOST PUMP PRESSURE SUPP	BFV	8FVX		FAAAAAAAAA
A37 FUEL BOOST PUMP SELECTED	BFVA .	BFV		050000000
A37 BOOST PUMP SWITCH 463	16 BFVAZ	BFVA	A	
A37 BOOST PUMP STATUS IND	BFVX	BFUC	BFV	111111111
A37 ATTENUATER	BFVXA	BFVX		111111111
A37 ANNUNCIATOR PANEL 443	SIA BFVXV	BFVXA	2	
A37 MASTER CAUTION LIGHT 443	IB BFVXW	BFVX	1	
A37 BOOST PUMP PRESS SW 463	IA BFVXY	BFVX	8	
A37 FUEL BOOST OFF LIGHT 443	ILA BEVXZ	BFVX	5	
A37 FUEL BUOST PUMP 46211 462		BFV	8	
A37 FUEL BUOST PUMP 46213 462		BFV	8	
T37 RESERVOIR 461		BF	1	
A37 SEAT TANK FUEL AVAILABLE	SFWA	BFWB		AAAAAAAA
A37 SEAT TANK ASSY 994	6F BFWAZ	BFWA	A	

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000000001111111111222222222	33333333	334444444	44555555555666666	66667777777778
2345678901234567890123456789	01234567	8901234567	1890123456789012345	678901234567890
37 SEAT TANK FUEL TRANSFER		BFWB	BFB	000000000
37 SEAT TANK FUEL TRANSFER		BFWB	BFWC	FAAAAAAAA
37 SEAT TANK TO FUSL-INTON	X 9946E	BFWBX	BFWB	A
37 SEAT TANK XFER PUMP	99460	BFWBY	BFWB	A
37 SEAT TANK XFER SEL SWITE	CH9946C	BFWBZ	BFWB	A
37 SEAT TANK FUEL STATUS DIS	P	BFWC	BFE	111111111
37 FUEL LEVEL PRESSR SWITE	CH46317	BFWCZ	BFWC	A
37 FUEL PRESSURE BOOSTED		BFX	BF	111111111
37 STRAINER ELEMENT	46232	BFXA	BF	1
37 FUEL LOW WARNING		BFXW	BFXY	AAAAAAAA
37 FUEL LOW LEVEL LIGHT	44311	BFXWY	BFXW	5
37 FLOAT SWITCH ASSY 4631		BFXWZ	BFXW	8
37 PILOT ACTION		BFXX	BFK	AAAAAAAA
37 PILOT ACTION		BFXX	8R	00000000
37 PILOT ACTION		BFXY	BFF	AAAAAAA
37 PILOT ACTION		BFXY	BEPA	FAAAAAAAA
37 FUEL QUANTITY DATA DISPLA	v	BFXY	BFXX	111111111
37 CONNECTUR	51726	BFXYU	BFXY	2
37 TEST SWITCH	51725	BFXYV	BFXY	ō
37 POWER UNIT	51724	BFXYW	BFXY	8
37 SELECT SW	51723	BFXYX	BFXY	8
		BFXYY	BFXY	2
37 PROBE 2 EA 37 FUEL QTY INDICATOR	51721	BFXYZ	BFXY	2
		BFXZ	BFXY	55555555
37 MAIN FUEL QUANTITY SENSED	46211	BFXZA	BFX	8
37 FUEL BOOST PUMP			BFX	o
37 BOOST PUMP DRAIN	46225	BFXZB	BFXZ	5
37 FUEL QUANTITY PROBE	51722	BFXZZ		
37 FUEL STRAINER	46231	BFY	8F	1
37 MANUAL SHUTOFF VALVE	46221	BFZ	8F	0
37 MANUAL SHUTOFF VALVE	46221	BF ZA	8F	0
37 FUEL STRAINER	46231	BFZB	BF	0
37 FUEL STRAINER ELEMENT	46232	BFZC	BF	0
37 FUEL STRAINER DRAIN VAL		BFZD	8F	0
37 FUEL STRAINER BAFFLES	46234	BFZE	8F	0
37 FUEL STRAINER LINER	46235	BFZF	BF	0
37 ENGINE ROTATION		BG	8C	AAAAAAAA
37 EIGINE ROTATION		BG	ВТ	FAAAAAAAA
37 TURBINE ROTOR BLADE, STG		BGA	BG	A
37 SEAL RUBBING	23CA2	BGAD	BG	1
37 ROLLER BEARING	23BAK	BGAE	BG	2
37 RUBBING SEAL RUNNER	23CBM	BGAF	BG	1
37 TURBINE BAFFLE STG 2	23CBL	BGAG	BG	0
37 TURBINE BAFFLE STG 1	23CBH	BGAH	8G	0
37 TURBINE TORQUE RING	23CBF	BGAJ	BG	5
37 LABYRINTH SEAL	23CBC	BGAK	BG	2
37 UUTER TURBINE SEAL	23CBB	BGAL	BG	1
37 BODY BOUND BOLT HOLES	23CAX	BGAM	BG	0
37 AFT CASING FLANGE	23CAV	BGAN	BG	0
37 FWD CASING FLANGE	23CAU	BGAP	8G	0
37 CARBON RUBBING SEAL	23BEJ	BGAQ	BG	1

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	000000111111111122222222222				
	56789012345678901234567890				
A37	BEARING SUPPORT SEAL	23BEH	BGAR	BG	1
A37	BALL BEARING OIL NOZZLE	23BEG	BGAS	86	2
A37	BEARING SUPPORT MI-D	23BEF	BGAT	86	2
A37	BALL BEARING MI-D	23BEF	BGAU	BG 3G	3
A37	VANE SEGMENT STG 8 STOP	236ED	BGAV	BG	C
A37	VANE SEGMENT STACE 8	23BEC	BGAW	HG	2
A37	STATIONARY STG 8 SEAL	23BEB	BGAX	60	
A37	STATIONARY INNER SEAL	23BEA	BGAY	BG	
A37	MAIN FRAME ASSEMBLY	238E0	BGAZ	86	A
A37	STAGE 2 TURBINE WHEEL	23C6J	BGB	BG	8
A37	STAGE 1 TURBINE BLADE	23CbG	BGC	BG	A
A37	STATIONARY TURBINE SEAL	23CAE	BGD	BG	
A37	TURBINE INTER STG SEAL	23CBE	BGE	BG	1
A37	STAGE 1 TURBINE WHEFL	23080	BGF	BG	8
A37	REAR RUBBING SEAL	23CBA	BGG	86	1
A37	TURBINE INLET HEAT SHILL		BGH	ВС	2
A37	HORIZONTAL CASING FLANGE		BGJ	86	0
A37	STG 2 PRESS-NOZZLE VANE	23CAT	BGK	86	3
A37	STG 1 PRESS-NOZZLE VANE	23CAS	BGL	BG	3
A 3 7	A-15 HORN	23CAR	BGM	RG	0
A 37	SEAL SUPPORT INS BLANKET	23CAQ	BGN	BG	0
A37	STG 2 TURBINE NOZZLE	23CAN	BGP	86	5
A37	STG 2 SECTOR SHROUD SEAL	23CAM	BGQ	BG	1
A37	STG 2 SECTOR SHROUD	23CAL	BGR	BG	0
A37	STG 1 SECTOR SHROUD SEAL	23CAK	BGS	BG	1
A37	STG 1 SECTOR SHROUD	23CAJ	BGT	BG	0
A37	REAR BEARING SUPPORT	23CAG	BGU	8G	2
A37	REAR ROLLER BEARING	23CAF	BGV	86	3
A37	REAR SUPPORT SEAL	23CAD	BGW	86	1
A37	STG 1 TURBINE NOZZLE	23CAC	BGX	BG	5
A37	LOWER TURBINE CASING	23CAB	BGY	86	A
A37	UPPER TURBINE CASING	23CAA	BGZ	BG	A
A37	EXHAUST GAS TEMP SENSED		BKD	BMAA	AAAAAAAA
A37	FIRE WALL CNX THERMO HAR	N23KDH	BKDW	8KD	5
A 37	RESISTOR TRIMMER	23KDP	BKDX	BKD	5
A37	SENSOR WIRING HARNESS	23KUN	BKDY	BKD	5
437	EGT SENSOR 8 EACH	99238	BKDZ	BKD	2
	CIL DISTRIBUTED		BLA	ВG	AAAAAAAA
	OIL DISTRIBUTED		BLA	BX	FAAAAAAAA
A37	BEARING UIL NUZZLE	23BAL	BLAS	BLA	2
A37	DIL SLINGER	23BC4	BLAV	BLA	3
A 37	CARBON RUBBING SEAL	238AM	BLAW	BLA	
A 37	OIL FILTER	23FAB	BLAX	BLA	ò
A37	REAR RUBBING SEAL	23CBA	BLAY	BLA	1
A37	BALL BEARING OIL NOZZLE	23BEG	BLAZ	BLA	3
	UIL PRESS GENERATED		BLB	BL A	AAAAAAAA
	OIL PRESS GENERATED		BLB	BMA	FAAAAAAAA
A37	GIL CULLECTOR	238AJ	BLBW	BLB	0
A37	SCAVENGE AND LUBE TUBE	23FAF	BLBX	BLB	č
A37	SCAVENGE AND AIR TUBE	23FAE	BLBY	BLB	Ü

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00000000111111111112222222222	333333	334444444	44555555555666	6666666	7777777778
23456789012345678901234567890	1234567	8901234567	890123456789012	3456789	01234567890
37 PUMP ASSEMBLY LUBE/SCAVN	G23FAA	BLBZ	BLB		A
37 UIL SUPPLIED		BLC	BLB		AAAAAAAA
37 OIL DIP STICK	23FAZ	BLCT	BLC		0
37 FILLER TUBE	23FAM	BLCU	BLC		0
37 TANK DRAIN PLUG	23FAL	BLCV	BLC		0
37 TANK FILLER CAP	23FAK	BLCW	BLC		0
37 OIL TANK FILLER NECK	23FAJ	BLCX	BLC		0
37 OIL PRESS RELIEF VALVE	23FAH	BLCY	BLC		ì
37 OIL TANK ASSY	23FAG	BLCZ	BLC		Ā
37 OIL COOLED		BLD	BLA		55555555
37 THERMOSTAT COOLER FLOW	23FAD	BLDY	BLO		1
37 OIL COOLER	23FAC	BLDZ	BLD		3
37 OIL PRESSURE SENSED XMIT	231.40	BMA	BMAE		-
37 EXHAUST GAS TEMP INDICATED		BMAA	BR		000000000
37 EXHAUST GAS TEMP INDICAT		BMAAZ	AAME		3
37 OIL PRESSURE INDICATED	CZJKDII	BMAE	BR	I BLB	111111111
37 OIL PRESSURE INDICATOR	23KDK	BMAEZ	BMAE		3
37 TRANSMITTER OIL PRESSURE	The second second	BMAZ	BMA		A
37 FUEL SUPPLIED	ZJRUM	BOA	BDE		**********
37 FUEL SHUTOFF T HANDLE	46318	BOAW	804		0
37 ENGINE FUEL MANIFOLD TEE		BOAX			5
			BQA		0
37 ENG SHUTOFF VALVE	46228	BOAY	BOA		
37 FUEL LINE STRAINER TO FC 37 THROTTLE POSITION	9940A	BOAZ	BQA		1
		BR	BOF		AAAAAAAA
37 THROTTLE POSITION		BR	BEC		FAAAAAAAA
37 LEFT THROTTLE POSITION		BRA	BR	BRB	1111111111
37 LEFT CABLE ASSY CONTROLE		BRAT	BRA		2
37 LEFT TORQUE TUBE	11626	BRAU	BRA		0
37 LEFT PUSH-ROD	11625	BRAV	BRA		2
37 LEFT BELLCRANK	11624	BRAW	BRA		3
37 LEFT LINKAGE	11623	BRAX	BRA		2
37 LEFT THROTTLE CONT LEVER	Secretary and the secretary an	BRAY	BRA		1
37 LEFT THROTTLE QUADRANT	11621	BRAZ	BRA		8
37 RIGHT THROTTLE POSITION		BRB	BR	K BRA	AAAAAAAA
37 RIGHT CONTROLEX CABLE AS		BRBT	BRB		2
37 RIGHT TORQUE TUBE	11626	BRBU	BRB		0
37 RIGHT PUSH-ROD	11625	BRBV	BRB		2
37 KIGHT BELLCRANK	11624	BRBW	BRB		3
37 RIGHT LINKAGE	11623	BRBX	BRB		2
37 RIGHT THROTTLE CONT LEVE		BRBY	BRB		1
37 RIGHT THROTTLE QUADRANT	11621	BRBZ	BRB		8
37 DISCONNECT ROD END	23KBJ	BRZ	BR		A
37 ENGINE BLEED AIR DIST		BS	BDH		55555555
37 ENGINE BLEED AIR DIST		85	BSB		F55555555
37 ENGINE BLEED AIR DIST		BS	BVA		F55555555
37 ENGINE BLEED AIR SUPPLIED		BSB	EAAH		111111111
37 ASPIRATOR TUBE CONNECTOR	23GAL	BSW	BS		2
37 ANTI-ICE TUBE	23GAK	BSX	BS		A
37 FWD RETAINING RING	23GAF	BSY	BS		1
37 BLEED AIR TUBE	23GAC	BSZ	85		В

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	0000001111111111222222222233				
	567890123456789012345678901	2345678			
	POWER TAKEOFF		BT	ex	AAAAAAAA
437	SHAFT GEAR	2380F	BTJ	81	0
A37	HEAT SHIELD LUBE SEAL	23600	BTK	вт	0
A37	HEAT SHIELD RADIAL SHAFT		BTL	BT	0
A37	RADIAL DRIVE SHAFT	23BCN	втм	ВТ	C
A37	FRONT BRNG OIL NOZZLE	23BDM	BTN	ВТ	0
A37	SUMP TUBE ASSY	23BDL	ВТР	61	0
A37	OIL TUBE ASSY	23BUK	810	81	0
A37	BALL BEARING RADIAL DRIVE		BTR	вт	C
A37	RADIAL DRIVE BRNG HOUSING		BTS	8T	0
A37	RADIAL DRIVE ROLLER BRNG		811	81	0
437	AXIAL BEARING SUPPORT	23BDE	BTU	ВТ	0
A37	BALL BEARING	23800	BTV	61	0
A 3 7	BEVEL SHAFTGEAR DRIVER	23BDC	BTW	BT	0
A37	HOUSING ASSY	23808	BTX	E.T	0
A37	INSULATION BLANKET	238DA	BTY	13	0
A37	POWER TAKEUFF ASSY	23800	BTZ	81	4
	INLET AIR CONTROLLED		RA	BC	111111111
	INLET AIR CONTROLLED		8 v	BDJ	FAAAAAAAAA
	ANTI-ICE AIR DISTRIBUTED		BVA	BV A	AAAAAAAA
	ANTI.ICE AIR ACTIVATED		BVAA	6 VA	
A37	ANTI-ICE MANIFOLD	23BAU	BVAAX	BVAA	2
437	ANTI-ICE VALVE SOLENOID	23HAU	BVAAY	BVAA	5
437	ANTI-ICE VALVE	23HAT	BVAAZ	BVAA	5
	ANTI-ICE ACTIVATE		BVAB	BVAA	AAAAAAAA
A37	CONNECTOR THERMOCCUPLE	23HAW	BVABY	BVAB	8
A 37	ICE DETECTION PROBE	23HAV	BVABZ	BVAB	A
A37	VARIABLE VANES POSITIONED		BVB	BA	AAAAAAAA
A37	IGV MOTION TRANSMITTED		BVBA	BVB	AAAAAAAA
A37	IGV MOTION TRANSMITTED		BVBA	RARC	FAAAAAAAA
500	IGV MOTION TRANSMITTED		BVBA	BARD	FAAAAAAAAA
A37	ACTUATOR ROD END 2 EACH	23JAP	BVBAW	RARA	3
A37	ACTUATOR LEVER 2 EACH	23JAF	BVBAX	BVBA	2
A37	SYNCHRUNIZING CABLE	23JAJ	BVEAY	BVBA	2
A37	ACTUATOR BELLCRANK 2 EACH	123JAG	BVBAZ	BVBA	2
	IGV ACTUATION		8488	BVBA	AAAAAAAA
A37	ACTUATOR FUEL TUBE	23JAL	BVBBX	8483	2
A 37	ACTUATOR FUEL HOSE	23JAK	BVBBY	BV3B	5
A37	IGV ACTUATOR 2 EACH	23JAB	BV68Z	8488	3
A37	BLEED AIR CONTROLLED		BVBC	8 V 8	111111111
A37	BLEED AIR VALVE ASSY	23JAM	BVBCZ	BVBC	7
	FEEDBACK CONTROL		BABC	BVBR	AAAAAAAA
437	ROD END	23JAP	BVBCY	BVBD	2
A37	FEED BACK CARLE	23JAH	BVBDZ	EVED	5
	ENGINE COOLED		BVBE	BA	111111111
A37	STAGE 1 COOLING DEFLECTOR		BVBEZ	BVBE	1
A37	ADJUSTABLE LINKS 2 EACH		BVBW	BVB	0
A37	RING ASSY LUG DETACHABLE		BVBX	BVB	Ü
A37	RING ASSY BUTTONS MIPLON		BVBY	BVB	0
437	ACTUATOR RING ASSY	23.JAC	BVB7	8 VA	8

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00	00000011111111112222222223	333333	3344444444	44555555	555666	666666617777	777778
1.2	3456789012345678901234567890	1234567	18901234567	890123456	789012	3456789012349	567890
A3	7 BEARING HOUSING	236AC	BVQ		BV	1	
A3	7 INLET GUIDE VANES 15 EA.	23JAA	BVR		BV	1	
A3			BVS	*	BV	2	
A3			BVT		BV	2	
A3		23BAH	BVU		BV	ō	
A3		238AG	BVV		BV	o	
A3		238AF	BVW		BV	i	
A 3		238AE	BVX		BV	ò	
A3		238AB	BVY		BV	ŏ	
A3		238AA	BVZ		BV	3	
	7 ACCESSORY GEARBOX DRIVEN	ZJOAA	BX		BA		AAAAA
			BX		BXA	The second secon	
	7 ACCESSORY GEARBOX DRIVEN						AAAAAA
	7 ACCESSORY GEARBOX DRIVEN		BX		BXB		AAAAA
	7 ACCESSORY GEARBOX DRIVEN		BX		BXC		AAAAA
	7 ACCESSORY GEARBOX DRIVEN		BX		BXD		
	7 ACCESSORY GEARBOX DRIVEN		BX		BXF		AAAAA
	7 DRIVE AXIS A ENABLED		BXA		BDG		111111
A 3		23ABJ	BXAP		BXA	0	
A3		23ABH	BXAQ		BXA	0	
A3	7 RETAINING RING	23ABG	BXAR		BXA	1	
A3	7 ROLLER BEARING HOUSING	23ABF	BXAS		BXA	A	
A3	7 ROLLER BEARING	23ABE	BXAT		BXA	A	
A3	7 BEVEL SHAFTGEAR	23ABD	BXAU		BXA	A	
A3	7 BEARING RETAINER	23ABC	BXAV		BXA	A	
A3	7 BALL BEARING	23ABB	BXAW		BXA	A	
A3	7 BEARING HOUSING	23ABA	BXAX		BXA	A	
A3	7 AXIS A DRIVE GROUP	23AB0	BXAY		BXA	A	
A3	7 ACCESSURY GEARBOX ASSY	23AAC	BXAZ		BXA	A	
A3	7 DRIVE AXIS B ENABLED		BXB		UHAB	AAA	AAAAA
A3		23ALL	BXBM		вхв	1	
A3		23 ACK	BXBN		вхв	A	
A3		23ACH	BXBP		BXB	Δ	
A3		23ACJ	BXBQ		8 X B	A	
A3		23ACG	BXBR		BXB	A	
A3		23ACF	BXBS		BXB	A	
A3		23ACE	BXBT		вхв	Δ	
A3		23ACD	BXBU		BXB		
A3		23ACC	BXBV		BXB		
A3		23ACB	BXBW		BXB	ī	
A3		23ACA	BXBX		BXB	i	
A3			BXBY		8X8		
A3		23AC0				Ã	
1000		23440	BXBZ		BXB		
43		22454	BXC		UDG		AAAAA
A3		23ADM	And the second of		BXC	0	
A 3		23ADL	BXCM		BXC	1	
A3		23ADK	BXCN		BXC		
A3		23ADJ	BXCP		BXC	1	
AS			BXCO		BXC	A .	
A 3		23ADG	BXCR		BXC	A	
A3	7 SHAFT GEAR	23ADF	BXCS		BXC	A	

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00000000011111111111222222222	33333333	334444444	444555555	5555666	666666	7777	777776
12345678901234567890123456789	01234567	8901234567	789012345	5789012	3456789	0123	4567890
A37 AFT BALL BEARING	23ADE	BXCT		BXC		A	
A37 AFT MATING RING	23ADD	BXCU		BXC		1	
A37 AFT RUBBING SEAL	23ADC	BXCV		BXC		1	
AST BALL BEARING HOUSING	23ADB	BXCW		BXC		A	
A37 AFT PAD COVER	23ADA	BXCX		BXC		0	
A37 AXIS C DRIVE GROUP	23AD0	BXCY		BXC		A	
A37 ACCESSORY GEARBOX ASSY	23440	BXCZ		BXC		A	
A37 DRIVE AXISADAENABLED		BXD		8DF		AA	AAAAAA
A37 DRIVE AXISODOENABLED		BXD		BXDA		FAA	AAAAAA
A37 ENGINE RPM MEASURED		BXDA		BXDB		AA	AAAAAA
A37 TACHOMETER GENERATOR	23HAH	BXDAZ		BXDA		A	
A37 ENGINE RPM INDICATED		BXDB		BEF		555	555555
A37 TACHOMETER INDICATOR	23KDF	BXDBZ		BXDB		3	
A37 RUBBING SEAL	23AEF	BXDS		BXD		1	
A37 SEAL/BEARING HOUSING	23AEE	BXDT		BXD		A	
A37 AFT BALL BEARING	23AED	BXDU		BXD		A	
A37 SHAFT GEAR	23AEC	BXDV		BXD		A	
A37 FWD BALL BEARING	23AEB	BXDW		BXD		A	
A37 MATING RING	23AEA	BXDX		BXD		1	
A37 AXIS D DRIVE GROUP	23AE0	BXDY		BXD		A	
A37 ACCESSORY GEARBOX ASSY	23440	BXDZ		BXD		A	
A37 DRIVE AXIS F ENABLED		BXF		BLB		AA	AAAAAA
A37 SHAFT GEAR	23AGC	BXFR		BXF		A	
A37 BALL BEARING RETAINER	23AGG	BXFS		BXF		A	
A37 RETAINING RING	23AGF	BXFT		BXF		A	
A37 BALL BEARING	23AGE	BXFU		BXF		A	
A37 BALL BEARING HOUSING	23AGD	BXFV		BXF		A	
A37 ROLLER BEARING	23AGB	BXFW		BXF		A	
A37 ROLLER BEARING HOUSING	23AGA	BXFX		BXF		A	
A37 AXIS F DRIVE GROUP	23AG0	BXFY		BXF		A	
A37 ACCESSORY GEARBOX ASSY	23440	BXFZ		BXF		A	
A37 RIGHT OIL NOZZLE	23AAG	BXT		BX		2	
A37 LEFT OIL NOZZLE	23AAF	BXU		BX		2	
A37 FWD OIL SCAVENGE TUBE	23AAE	BXV		BX		5	
A37 REAR DIL SCAVENGE TUBE	23AAD	BXW		BX		5	
A37 CASE BAFFLE	23AAC	BXX		BX		0	
A37 GEARBOX CASE	23AAB	BXY		вх		3	
A37 GEARBOX COVER	23AAA	BXZ		вх		1	
A37 INLET SCREENS ACTUATED		82		BA			1000000
A37 PILOT MANUAL ACTUATED		BZA		82	K BZB	100	1111111
A37 CONTROL SWITCH	11341	BZAZ		BZA		8	
A37 AUTOMATIC ACTUATED		BZB		82	K BZA		1111111
A37 LANDING GEAR SQUAT SW.	11342	8282		BZB		1	
A37 THROTTLE PUSITION ACTUA		BZC		82			1111111
A37 THROTTLE LIMIT SWITCH		BZCZ		BZC		2	
A37 INLET SCREEN POS SENSED	The second section	BZX		BZA			1111111
A37 ANNUNCIATOR PANEL	4431A	BZXW		BZX		2	
A37 MASTER CAUTION LIGHT	44318	BZXX		BZX		1	
A37 POSITION LIGHT	11344	BZXY		BZX		2	
A37 POSITION SWITCH	11343	BZXZ		BZX		5	

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000000000111111111122272222223	3333333	344444444	4555555	5555666	66666667	777777778
123456789012345678901234567890	12345678	90123456789	90123456	789012	34567890	1234567890
A37 AIR INLET SCREENS 2EA	11327	BZZA		82	1	
437 INLET SCREEN ACTUATOR	11331	BZZB		BZ	A	
A37 INLET SCREEN CONT VALVE	11332	BZZC		BZ	8	
A37 COMM/NAV/IDENT		C				AAAAAAAA
T37CUMMUNICATIONS-IFF		C				AAAAAAAA
A37 COMMUNICATIONS		CC		C	E	011111120
A37 AIR / GROUND COMM		CCB		CC		111111111
A37 UHF COMMUNICATIONS		CCBA		CCB	CCBB	111111111
A37 VHF COMMUNICATION		CCBB		CCB	K CCBA	AAAAAAAA
A37 VHF XMIT & RECEIVE		CCBB		CNBB		AAAAAAAA
A37 UHF CONTROL / MODE SELECT		CCBC		CCBA		AAAAAAAA
A37 UHF CONTROL / MODE SELECT		CCBC		CCBJ		FAAAAAAAA
A37 ARC 150 CONTROL	63614	CCBCU		CCBC	5	
A37 ARC 109 FRED RELAY SWITCH		CCBCV		CCBC	2	
A37 ARC 109 CONTROL	63512	CCBCW		CCBC	5	
A37 ARC 51 WATT METER	63318	CCBCX		CCBC	0	
A37 ARC 51 CONTROL	63312	CCBCY		CCBC	5	
A37 ARC 133 CONTROL	63112	CCBCZ		CCBC	5	
A37 UHF XMIT & RECEIVE		CCBD		CCBA		AAAAAAAA
A37 ARC 109 ADAPTER	63517	CCBDA		CCHD	0	
A37 RF TRANSLATOR	63518	CCBDAV		CCBD	1	
A37 ARC 109 RELAY	63524	CCBDAW		CCBD	2	
A37 ARC 109 COAX CABLE	63523	CCBDAX		CCBD	2	
A37 ARC 109 RACK	63522	CCBDAY		CCBD	0	
A37 ARC 109 TERMINAL STRIP	63521	CCBDAZ		CCBD	1	
A37 ARC 109 BLOWER	63516	CCBDB		CCBD	1	
A37 ARC 109 RCVR / XMTR 6311	563515	CCBDC		CCBE	5	
A37 ARC 150 RCVR-XMTR	63611	CCBDCA		CCRE	5	
A37 ARC 109 MOUNT	63514	CCBDD		CCBD	0	
A37 ARC 109 POWER SUPPLY	63513	CCBDE		CCBE	8	
A37 ARC 150 POWER SUPPLY	63615	CCBDEA		CCBE	8	
A37 ARC 109 ANTENNA	63511	CCBDF		CCBD	5	
A37 ARC-51 RELAY	63414	CCBDG		CCBD	2	
A37 ARC-51 COAX CABLE	63413	CCBDH		CCBD	2	
A37 ARC-51 RACK	63412	CCBDJ		CCBD	0	
A37 ARC-51 TERMINAL STRIP	63411	CCBDK		CCBD	ı	
A37 ARC-51 BLOWER	63317	CCBDL		CCBD	1	
A37 ARC-51 RCVR / XMTR 6311		CCBDM		CCBE	5	
A37 ARC-51 MOUNT	63314	CCBDN		CCBD	0	
A37 ARC-51 POWER SUPPLY	63313	CCBDP		CCBD	8	
A37 ARC-51 ANTENNA	63311	CCBDQ		CCBD	5	
A37 ARC 133 RELAY	63215	CCBDR		CCRD	2	
A37 ARC 133 COAXIAL CABLE	63213	CCBDS		CCBD	2	
A37 ARC 133 RACK	63212	CCBDT		CCBD	0	
A37 ARC 133 TERMINAL STRIP	63211	CCBDU		CCBD	1	
A37 ARC 133 ANTENNA SHIELD	63117	CCBDV		CCBD	1	
A37 ARC 133 ANTENNA	63111	CCBDW		CCBD	5	
A37 ARC 133 MOUNT A37 POWER SUPPLY	63114	CCBDX		CCBD	0 8	
A37 POWER SUPPLY A37 ARC 133 RCVR / XMTR63319	63113	CCBDY		CCBE	5	

PGGU95.J1R1 DATE = 09/17/75			FL IGHT	SAFETY	PREDIC	TION TECHNIOU
000000000111111111112222222222	3333333	334444 4444	44555555	555666	6666666	777777778
123456789012345678901234567890						
A37 RECEIVE UNF		CCBE		CCBD		88888888
AST RECEIVE UMF		CCBE		CNHF		AAAAAAAA
A37 XMIT UHF		CCBF		CCBD		22222222
A37 ARC 150 RCVR-XMTR	63611	CCBFS		CCBF		5
A37 ARC 109 XCVR / XMTR	63515	CCBFT		CCBF		5
A37 ARC 51 XCVR / XMTR	63315	CCBFU		CCBF		5
A37 ARC 133 XCVR / XMTR	63115	CCBFW		CCBF		5
A37 POWER SUPPLY ARC 109	63513	CCBFX		CCBF		8
A37 ARC 150 POWER SUPPLY	63615	CCBFXA		CCBF		3
A37 POWER SUPPLY ARC 51	63313	CCBFY		CCBF		3
A37 POWER SUPPLY ARC 133	63113	CCBFZ		CCBF		
437 UHF / DF RECEIVE	03113	CCBG				
A37 UHF / DF RECEIVE		CCBG		CCBE		FAAAAAAAAA
	71514			CNHF		33333333
		CCBGW		CCBG		
A37 ANTENNA HOUSING ARA-50	71513	CCBGX		CCBG		
A37 AMPLIFIER ARA-50	71512	CCBGY		CCBG		3
A37 ANTENNA ARA-50	71511	CCBGZ		CCBG		3
A37 UHF / DF INTERFACE SELECT		CCBJ		CCBG		AAAAAAAA
A37 ARC 150 CONTROL	63614	CCBJW		CCBG		5
A37 ARC 109 CONTROL	63512	CCRTX		CCBC		
A37 ARC 51 CONTROL	63312	CCBJY		CCBG		5
A37 ARC 133 CONTROL	63112	CCBJZ		CCBG		5
A37 VHF HOMING & APPROACH		CEBM		CCBB		FAAAAAAAAA
437 VHF HOMING & APPROACH		CCBM		CNBF		33333333
A37 ANTENNA MOUNT	71415	CCBMW		CCBM		
A37 ARA-56 ANTENNA PH BOX	71414	CCBMX		CCBM		;
437 ARA-56 ANTENNA COUPLER	71413	CCBMY		CCBM		3
A37 ARA-56 ANTENNA	71412	CCBMZ		CCBM		
A37 VHF XMIT / RECEIVE		CCBN		CCBB		AAAAAAAA
A37 ANTENNA	62213	CCBNS		CCBN		5
A37 MOUNT	62212	CCBNT		CCBN	()
A37 WILCOX 807 RCVR / XMTR	62211	CCBNU		CCBN		3
A37 FM 622 MOUNT ASSY	62116	CCBNV		CCBN		
437 FM 622 RACK ASSY	62115	CCBNW		CCBN		
A37 FM 622 ANTENNACOUPLER	62114	CCBNX		CCBN		2
A37 FM 622 ANTENNA	62113	CCBNY		CCBN		5
A37 FM 622 RCVR / XMTR	62111	CCBNZ		CCBN		3
A37 VHF CUNTRUL & MODE SELECT	The second second	CCBP		CCBB		AAAAAAAA
A37 WILCOX CONTROL	71111	CCBPY		CCBP		3
A37 FM-622 CUNTROL PANEL	62112	CCBPZ		CCBP		1
A37 INTERCOMMUNICATIONS	~~~~	CCC		CC		303000303
437 ELECTRICAL CONNECTOR	64114	CCCM		cic		2
A37 INTERCOMM CONTROL	64113	CCCX		CCC		
A37 MICROPHONE SWITCH	64112	CCCY		ССВ		
A37 JUNCTION BOX	64111	CCCZ		CCC		
A37 KEYING CIRCUIT	64117	CCX		CCB		3
A37 HEADSET CORD ASSEMBLY	64116	CCÝ		CCB		5
		CCZ				
A37 HEADSET TPERS EQUIPS 21	MO4113	and the same of th		ССВ		001333340
A37 NAVIGATION		CN		C	E	001222240
A37 D/F NAVIGATION USED		CNA		CN	K CNB	AAAAAAAA

PGG095.J1R1 DATE = 09/17/75	FL IGHT	SAFETY	PREDICTION TECHNIQUE
00000000111111111122222222233333333			
12345678901234567890123456789012345678			
A37 ELAPSED TIME OBSERVED	CNAB	CNA	111111111
A37 CLOCK 51212	CNABZ	CNAB	2
A37 AIRCRAFT HEADING OBSERVED	CNAC	CNA	
A37 MAG HEADING	CNAD	CNAC	CNAE 111111111
A37 ATTENUATER	CNADA	CNAD	111111111
A37 COMPASS CURRECTION CARD 51214	CNADY	CNAD	0
A37 STAND BY COMPASS 51211	CNADZ	CNADA	7
A37 GYRO SLAVED MAG HEADING	CNAE	CNAC	CNAD 111111111
A37 GYRO-MAG HEADING DERIVED	CNAF	CNAE	AAAAAAAA
A37 S.3A DIRECTIONAL GYRU C. 51223	CNAFU	CNAF	8
A37 COMPASS AMP 51224	CNAFV	CNAF	5
A37 SLAVING CUT OUT SW 51225	CNAFW	CNAF	2
A37 REMOTE MAGNETIC DETECTOR 51222	CNAFX	CNAF	8
A37 8-7A AMP 51226	CNAFY	CNAF	2
A37 SOLID STATE AMP 51227	CNAF Z	CNAF	2
A37 SLAVED COMPASS INDICATED	CNAG	CNAE	111111111
A37 V.8 INDICATOR 51221	CNAGZ	CNAG	7
A37 BDHI HEADING BEZEL OBSERVO	CNAH	CNAE	111111111
A37 BDHI BEZEL 51228	CNAHZ	CNAH	7
A37 STEERING SOLUTIONS PROVID	CNB	CN	CNA 111111111
437 BEARING / DISTANCE PROVIDE	CNBA	CNB	55555555
A37 BUHI INDICATOR 51228	CNBAZ	CNBA	7
A37 COURSE DEVIATION INDICATED	CNBB	CNB	55555555
A37 AUTOMATIC DIRECTION FIND	CNBC	CNBA	CNBD 111111111
A37 TACAN RANGE & BEARING	CNBD	CNBA	11111111
A37 TACAN COURSE TO INDICATED	CNBE	CNBB	55555555
A37 INDICATOR DEV 71316 71315	CNBEY	CNBE	2
A37 INDICATOR COURSE 71310 7131C	CNBEZ	CNBE	2
A37 VHF HOMING COURSE INDICATO	CNBF	CNBB	33333333
A37 INDICATOR 71411	CNBFY	CNBF	5
A37 INDICATOR 7141A	CNBFZ	CNBF	5
A37 TACAN RECEIVE & XMIT	CNBG	CNB	\$22222222
A37 TACAN RECEIVE & XMIT	CNBG	CNBD	FAAAAAAAA
A37 TACAN RECEIVE & XMIT	CNBG	CNBE	F55555555
A37 AN/ARN.65 ANTENNA COUPLER 71318	CNBGS	CNBG	5
A37 AN/ARN.65 RCV'R / XMTR 71317	CNBGT	CNBG	8
A37 AN/ARN.65 PHASE DETECT 71314	CNBGU	CNBG	5
A37 AN/ARN.65 CONTROL PANEL 71313	CNBGV	CNBG	5
A37 AN/ARN.65 CHANGE.OVER SW 71312	CNBGW	CNBG	8
A37 AN/ARN.65 ANTENNA 71311	CNBGX	CNBG	8
A37 AN/ARN.65 MOUNT 71318	CNBGY	CNBC	C
A37 AN/ARN.65 RELAY 7131A	CNBGZ	CNBG	5
A37 VHF OMNI . RANGE INDICATED	CNBX	CNBB	33333333
A37 WILCOX 806A INDICATOR 7131C	CNBXV	CNBX	3
A37 UHF DIRECTION FINDING	CNHF	CNBC	CNLF 111111111
A37 INDICATOR FREQ 63116	CNHFY	CNHF	2
A37 INDICATOR FREQ 63316	CNHFZ	CNHF	2
A37 LF DIRECTION FINDING	CNLF	CNBC	11111111
A37 LF / DF MODE CONTROL	CNLFA	CNLF	
A37 LF / DF RECEIVE & PROCESS	CNLFB	CNLF	55555555

FLIGHT SAFETY PREDICTION TECHNIQUE

000	occoording the state of the sta	,,,,,,,,	2211111111172	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
123	456789012345678901234567890	1234567	8901234567890	1234567890123	4567890	1234567890
A37	ARN. 83 POWER SUPPLY	71618	CNLFRS	CNLFB	8	
A37	ARN 83 MOUNT	71617	CNLFRT	CNLFB	0	
A37	ARN 83 TRANSFER KELAY	71616	CNLFBU	CNBC	5	
A37	ARN 83 QUAD CURRECT	71615	CNLFBV	CNLFB	2	
A 37	ARN 83 SENSE ANTENNA	71614	CNLFBW	CNLFB	4	
A 37	ARN 83 LOGP ANTENNA	71613	CNLFBX	CNLFB	2	
A37	ARN 83 RECEIVER	71612	CNLFRY	CNLFB	8	
A37	ARN 83 CONTROL PANEL	71611	CNLF82	CNLFA	2	
137	NAVIGATION		CNT	C	E	001222210
137	DR NAVIGATION UTILIZED		CNTA	CNT	K CNTB	AAAAAAAA
137	AIDED STEERING SOLUTIONS		CNTB	CNT	CNTA	111111111
137	MAGNETIC INDICATOR	71118	CNTBS	CNTA	2	
137	CHURSE INDICATOR	71117	CNTBT	CNTB	2	
137	ANTENNA COUPLER	7111A	CNTBU	CNTH	2	
T37	ANTENNA	71111	CNTBV	CNTB	5	
T37	CONTROL	71112	CNTBW	CNTE	5	
T 37	INSTRUMENTATION UNIT	71113	CNTBX	CNTB	5	
137	MOUNT	71114	CNTBY	CNIB	0	
T 37	COLLIUS VHF PCVR	71115	CNTBZ	CNTB	8	
137	ELAPSED TIME OBSERVED		CNTC	CNTA		55555555
T37	CLOCK	51212	CNTCZ	CNTC	1	
137	AIRCRAFT HEADING OBSERVED		CNTD	CNTA		AAAAAAAA
137	STANDBY HEADING USED		CNTE	CNTD	CNTF	1111111111
137	ATTENUATER		CNTEA	CNTE		111111111
T37	COMPASS CORR CARD	51214	CNTEY	CNTE	0	
137	STANDBY CUMPASS ZEA	51211	CNTEZ	CNTEA	5	
137	PRIMARY HEADING USLU		CNTF	CNTD	CNTE	111111111
137	HEADING INDICATOR V-8	51221	CNTFZ	CNTF	8	

CNTG

CNTGU

CNTGV

CNTF

CNTG

CNTG

CRA

CRA

CRA

CRA

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0

PGGD95.JIRL

137 HEADING INFO DERIVED

T37FREQUENCY CARD T37TERMINAL STRIP

T37EQUIPMENT RACK

T37COAXIAL CABLE

SOLID STATE AMP 51226

137

T37

DATE = 09/17/75

8.7A AMPLIFIER 5 51226 137 CUT. OUT SWITCH 51225 CNIGN CNTG CNTGX COMPASS AMP 51224 CNTG 8 137 137 DIRECTIONAL GYRO 51223 CNTGY CNTG 7 137 REMOTE MAG DETECTOR 51222 CNTGZ CNTG 8 IDENTIFICATION CR 000000000 C 137COMMUNICATIONS CA E C 011111120 RADAK BEACON XPONDER CR4 CR 55555555 T37AIR TO GROUND COMM CRA CR 111111111 CRAA CRA XPONUER CONTROL & ENABLE AAAAAAAA A37 T374NTENNA 63111 CRAA CRA 5 CRAAY CRAA CIRCUIT BREAKER 72115 437 XPONDER SWITCH 72114 CRAAZ CRAA 2 437 CRAB T37CONTROL CRA 5 63112 T37PUWER SUPPLY 63113 CRAC CRA 8 T37MOUNT 63114 CRAD CRA 0

63116

63211

63212

63213

51227

51227

CRAF

CHAG

CRAH

CRAJ

PGGU95.JIR1 DATE = 09/17/75			FL IGHT	SAFETY	PREDICT	ION TECHNIQU
00000000011111111112222222223	333333	334444444	44555555	5555666	66666667	777777178
123456789012345678901234567890			89012345			1234567890
T37RELAY	63215	CRAK		CRA	5	
A37 COMPARATOR	65DAD	CRAS		CHA	0	
A37 POWER SUPPLY TEST	65DAC	CRAT		CRA	0	
A37 MODE GENERATOR	65DAB	CRAU		CRA	0	
A37 MAIN FRAME ASSY	65DAA	CRAV		CRA	0	
A37 TRANSPONDER TEST SET	65DA0	CRAW		CRA	0	
A37 ANTENNA	72113	CRAX		CRA	5	
A37 MOUNT	72112	CRAY		CRA	0	
A37 TRANSPONDER ASSY	72111	CRAZ		CRA	8	
A37 IDENTIFICATION FRIEND /FOE		CRB		CR		AAAAAAAA
A37 IFF XMIT / RECEIVE		CRBA		CRB	_	
A37 SIGNAL PROCESSUR	65BCK	CRBAF		CRBA	5	
A37 T.SEC COMPUTER KIT	65BCN	CRBAG		CRBA	0	
A37 RECIEVER	65BCM	CRBAH		CRBA	5	
A37 TRANSMITTER	65BCL	CRBAJ		CRBA	5	
A37 MODE 4 PROCESSOR	658CJ	CRBAK		CRHA	5	
A37 ENCODE GATE	65BCH	CRBAL		CRBA	2	
A37 POWER SUPPLY	65BCG	CRBAM		CRBA	5	
A37 DE.CODER	65BCF	CRBAN		CRBA	1	
A37 CLOCK ENCODER	65BCE	CRBAP		CRBA	5	
A37 ENCODER CONTROL	658CD	CRBAQ		CRBA	5	
A37 VIDEO.AMP DETECTOR	65BCC	CRBAR		CRBA	2	
A37 APX.64 MOUNT	65AAE	CRBAS		CRBA	0	
A37 APX.72 MOUNT	65BAE	CRBAT		CRHA	0	
A37 APX 64 XPONDER	65CAO	CRBAU		CRBA	8	
A37 APX.72 XPONDER	65DAU	CRBAV		CRBA	8	
A37 APX.64 ANTENNA	65AAD	CRBAN		CRBA	5	
A37 APX 72 ANTENNA	65BAD	CRBAX		CRBA	5	
A37 APX.64 XMTR RCVR	65AB0	CRBAY		CRBA	8	
A37 APX 64 RCVR-XMTR	65ACO	CRBAYA		CRBA	8	
A37 APX.72 XMTR RCVR	65880	CRBAZ		CRBA	8	
A37 APX 72 RCVR-XMTR	65BC0	CRBAZA		CRBA	8	
A37 IFF CONTROL		CRBB		CRB		AAAAAAAA
A37 APX.64 ANTENNA SW COAX	65AAB	CRBBU		CRBB	2	
A37 APX.72 ANTENNA SW COAX	65BAB	CRBBV		CRBB	2	
A37 APX.64 ANTENNA SELECT SW	65AAC	CRBBW		CRBB	5	
A37 APX.72 ANTENNA SELECT SW	65BAC	CRBBX		CRBB	5	
A37 APX.64 CONTROL	65AAA	CRBBY		CRBB	5	
A37 APX.72 CONTROL	65BAA	CRBBZ		CRBB	5	
A37 ALTITUDE REPORTING		CRAE		CRBA		55555555
A37 AAU 21 ALTITUDE ENCODER	51122	CRREZ		CRBE	8	
T37RECEIVER TRANSMITTER	63115	CRDE		CRA	8	
T37AIRCREW INFO EXCHANGE		CRG		CR		000000000
137INTERPHONE FILTER	6411A	CRGA		CRG	2	
137INTERPHONE FILTER	6411A	CRGB		CRG	2	
TSTELECTRICAL CONNECTOR	64114	CRGC		CRG	2	
TATELECTRICAL CONNECTOR	64114	CRGD		CRG	2	
TATELECTRICAL CONNECTOR	64114	CRGE		CRG	2	
TATELECTRICAL CONNECTOR	64114	CRGF		CRG	2	
THELECTRICAL CONNECTOR	64114	CRGH		CRG	2	

PGG095.J1R1 DATE = 09/17/75			FLIGHT	SAFFT	Y PREDICT	TION TECHNIQUE
00000000011111111112222222223						
T37ELECTRICAL CONNECTOR	64114	CRGJ	,,,,,,	CRG		2
T37ELECTRICAL CONNECTOR	64114	CRGK		CRG		
137PERSONAL EQUIPMENT	64115	CRGL		CRG		
137PERSUNAL EQUIPMENT	64115	CRGM		CRG		
137HEADSET CORD ASSEMBLY	04116	CRGN		CRA	Alberta Caleda	
137HEADSET CORD ASSEMBLY	64116	CRGO		CRA		
137RELAY RE 94A	64117	CRGP		CRG		
T3750DE SELECT	04111	CKM		CRA		AAAAAAAA
TATMORE SELECT		CRM		CRG		F000000000
T37MICKOPHONE SWITCH	64112	CPMA		CRM		
T37MICROPHONE SWITCH	64112	CRMB		CRM		
T37CONTROL C 824A	64118	CRMC		CRM		
T37CONTROL C 824A	64118	CRMD		CRM		
T371FF-LUCATION-ALTITUDE	04116	CT		C		000000000
T37MODE SELECT		CTM		CT		AAAAAAAA
T371FF CUNTRUL C6280 EMER	65BCA	CTME		CTM		
				CTM		
TOTIFF CONTROL C6280 NORMAL	65BCA	CTMN		CI		
T37MUUNT EMER	65BAC	CTREB				
137 TEST SET 1843 APX EMER	65BU0	CTREC		CT		
T37ANTENNA AT 7411A EMER	658AF	CTRED		CT		
T37 K3VR-XMTR EMERG	65880	CTTEA				
137SWITCH ANT MAN SELECT EMER	65BAG	CTTEB		C.1		
37 INFURMATION & DISPLAY		D				ΑΑΑΑΑΑΑΑ
37 FLIGHT STATUS		DA		D.		011111130
37 ALTITUDE		DAA		DA	E	OOALLIAAO
37 ALTITUDE RATE CHANGE	5.1. 22	DAAB		DAA		111111111
37 RATE OF CLIMB INDICATOR	51123	DAABZ		DAAB		
37 PRESSURE ALTITUDE		DAAC		DAA		88888888
37 STANDBY ALTITUDE INDICATE		DAAD		DAAC	K DAAF	ΑΑΑΑΑΑΑΑ
37 ALTIMETER	51122	DAADZ		DAAU	(
437 ALTITUDE DISPLAY 1 ENCODE		DAAE		CRBF		111111111
T37 ALT DISPLAY ENCODE		DAAE		CT		111111111
37 ALTITUDE DISPLAY 1 ENCODE		DAAE		DAAC	DAAD	111111111
A37 ALTIMETER AAU/21	51124	DAAEZ		DAAE	ć	
37 ATTITUDE INDICATED		DAB		DA	E	CACCOCCC
37 STANDBY ATTITUDE INDICATE		DABA		DAB	K DASE	AAAAAAAA
A37 ATTITUDE IND 51132	51138	DABAY		DABA		
37 ATTITUDE IND 51138	51132	DABAZ		DAHA		
37 PRIMARY ATTITUDE INDICATE		DABB		DAB	DABA	111111111
T37 VERTICAL GYRO	51135	DABBU		DABB	2	
37 2NTERLOCK RELAY	51136	DABBY		DARB		
437 GYRO FAST ERECT SWITCH	9951A	DABBW		DARR		
A37 CUT.OFF GYRO MC.1	51137	DABBX		DABB	-	
A37 MD.1 GYRO TSWITCH RATE		DABBY		DABB		
A37 MM.3 ATTITUDE INDICATER	51133	DARBZ		DABB		
37 TURN & SLIP INDICATED		DABC		DAB		111111111
37 TURN & SLIP INDICATOR	51131	DABCZ		DABC		5
A37 STATIC PRESSURE SENSED		DAF		CRBE		FAAAAAAAA
37 STATIC SENSING		DAF		DAA		SAAAAAAAA
37 STATIC SENSING		DAF		DAAB		FAAAAAAAA

PGG095.JIR1 DATE = 09/17/75

00000000011111111112222222222				
37 STATIC SENSING		DAF	DAAD	FAAAAAAAA
37 STATIC SENSING		DAF	DAAE	FAAAAAAAA
37 STATIC SENSING		DAF	DAG	FAAAAAAAA
	51144	DAFX	DAF	5
37 STATIC TUBING 37 STATIC DRAIN 2 EACH	51143	DAFY	DAF	ō
37 STATIC PORT 2 EACH	51145	DAFZ	DAF	5
	21142	DAG		
그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그			DAGX	FAAAAAAA
37 PITUT STATIC SENSEING		DAG DAGA	DXB	AAAAAAAA
37 PITOT SENSING	£		DAG	ΑΑΑΑΑΑΑΑ
37 PITOT HEAD	51141	DAGAW	DAGA	8
37 PITOT TUBE	51142	DAGAX	DAGA	5
37 PITOT CNX TUBING	51144	DAGAY	DAGA	5
37 PITOT DRAIN PORT	51146	DAGAZ	DAGA	0
37 VGH RECORDED	EFFAC	DAGX	08	111111111
37 MAGAZINE MAG TAPE	55AAC	DAGXX	DAGX	8
37 FLIGHT DATA RECORDER	55AAB	DAGXY	DAGX	8
37 TRANSMITTER ACCELEROMET	RODAAA	DAGXZ	DAGX	8
37 MAINTENANCE GUAGES! IND		08	0	000000000
37 WARNING INFORMATION		DC	0	AAAAAAAA
37 FIRE WARNING		DCA	BA	ΑΑΑΑΑΑΑΑ
37 FIRE WARNING		DCA	OC	ΑΑΑΑΑΑΑΑ
37 SYSTEM INTEGRITY MAINT NO		DCAA	DCA	111111111
T37 FLASHER ASSY	49114	DCAAW	DCAA	0
T37 MOUNT ASSY	49117	DCAAX	DCAA	C
37 TEST SWITCH	49115	VAAY	OCAA	0
37 CONTROL SWITCH	49118	DCAAZ	DCAA	5
37 FIRE DETECTED		DCAB	DCA	ΑΑΑΑΑΑΑΑ
137 OVER HEAT DETECTOR 2EA	49112	DCABY	DCAB	5
37 FIRE DETECT CABLE 4EA	49111	OCA8 Z	DCAB	5
T37 OVERHEAT LIGHTS 2EA	44315	DCAVX	DCA	8
37 R.FIRE DETECTION LIGHT	44314	DCAY	DCA	8
37 L.FIRE DETECTION LIGHT	44314	DCAZ	DCA	8
T37 INTAKE ICE WARNING		DCD	DC	Α ΑΑΑΑΑΑΑΑ
T37 ICE WARNINGINTERPRETER	44427	DCDX	DCD	1
137 ICE WARNING LITE	44312	DCDY	DCD	8
137 ICE DETECT PROBE	44426	DCDZ	DCD	8
37 ATTENUATION		DX	OA OX	111111111
37 AIRCRAFT G.LOAD INDICATE	*****	DXA	DX	5
37 ACCELEROMETER	51111	DXAZ	DXA	
A37 AIR SPEED OBSERVED		DXB	CNA	55555555
T37 MACH AIRSPEED INDICATED		OXB	CNTA	88888888
37 MACH & AIRSPEED INDICATED		DXB	DX	OALOIOIAG
37 AIRSPEED IND 2EA	51121	DXBZ	DX9	1
37ENVIRONMENTAL CONTROL SYS		E		AAAAAAAA
37 AIR TEMP / PRESSURE		EA	E	011111120
37AIRCONDITIONINGVENTILATIO	IN	EAA	EA	001111100
37DISTRIBUTION OF AIR		EAAA	EAA	AAAAAAAA
370 ISTRIBUTION OF CONDIT AIR	41111	EAAB	EAAA	, 111111111
37AIR OUTLET	41113	EAABA	EAAB	
37AIR VALVE	41125	EAABB	EAAB	ı

FLIGHT SAFETY PREDICTION TECHNIQUE

FGGG95. JIKI DATE = 09/11/15			FLIGHT 5	AFETY	PREDIC	. 110	A LECHNIOUP
0000000011111111112222222222	3333333	33444444	44455555555	556666	666666	7777	1777778
123456789012345678901234567890							
37DISTRIBUTION VALVE	41141	EAABC		AAB		1	
37PILULLO TUBE	41144	EAABD		AAB		0	
37DISTRIBUTION OF RAM AIR		EAAC	E	AAA	K EAAR	A A	AAAAAAA
37AIR SCOOP RUPPER	41124	EAACA	· · · · · · · · · · · · · · · · · · ·	AAC		1	
37RAM AIR VALVE	41123	EAACB	E	AAC		A	
37AIR OUTLET	41126	EAACC	E	AAC		1	
37MISING BLEED AIR		EAAD	E	AAB		AA	ΑΑΑΑΑΑ
137CONTROL WIRE MIXING VALVE	4113B	EAADA	E	AAU		1	
37MIXING MUFF	41142	EAADB	E	AAD		A	
37WATER SEPARATOR	41122	EAADC	E	AAD		1	
T37WATER SEPARATOR SOCK	41127	EAADD	E	DAA		1	
37MODULATING VALVE	41131	EAADE	E	AAU		5	
37TEMPERATURE SELECTOR VALVE	41136	EAADF	E	AAD		5	
37 SELECTOR SWITCH	41137	EAAEA	E	AAA		A	
37REFRIGERATED AIR		EAAF	E	AAD			ΔΔΔΔΔΔΔ
37COOLING TURBINE	4112A	EAAFA	E	AAF		8	
37HEAT EXCHANGER	41121	EAAFB	E	AAF		5	
T37DUCT RAM AIR &LOWERS	41128	EAAFC	E	AAF		1	
37TEMPERATUR CONTROL-AUTOMATI		EAAG	E	AAD		11	1111111
37TEMPERATURE CONTROLLER	41134	EAAGA	E	AAG		A	
37THERMISTOR	41135	EAAGB	Ε	AAG		A	
37 HOT AIR CONTROL		EAAH	[AAU		AA	AAAAAAA
37HOT AIR CONTROL		EAAH	E	AAF		FAA	*****
37 HOT AIR CONTROL		EAAH	E	ABU		AA	MAAAAAA
37AIRBLEED ASSEMBLY	41111	EAAHA	£	ADH		A	
37CHECK VALVE-LEFT ENGINE	41114	EAAHB	E	AAH		1	
37 SHUTOFF VALVE	41115	EAAHC		AAH		5	
37AIR BLEED VALVE	41116	LAAHD		AAH		8	
37AIR BLEED HOSE	41118	EAAHE		AAH		5	
37PLENUM CHAMBER	41132	EAAHH		AAH		2	
37 SELECTUR SWITCH AUTOMATIC	4113A	EAAJA		DAA		5	
37PEFOG		EAB		C	Y	-	00000010
37DEFOG DISTRIBUTION		EABA		AB			AAAAAA
T37TUBE DEFROST	41145	EABAA		ABA		2	
37PEFOG CONTROL		EABB		ABA			AAAAAA
TATPILUTER	41138	EABBA		ABB		1	
37DEFROSTING VALVE	41117	EABBB		ABB		5	
370EFOG SELECT		EABC		ABB			AAAAAA
37SELECTOR SWITCH MANUAL	41133	EABCA		ABC		5	
370XYGEN		EAC	E				2444000
37DISTRIBUTION OF OXYGEN-INST		EACA		AC			2222222
A37 DISTRIBUTION OF DXYGEN		EACA		AC	Н		AAAAAA
37HOSE QUICK DISCONN TO MASK	47217	EACAA		ACA		8	
A37 OXYGEN PLUMBING	47213	EACAZ		ACA		2	
370 ISTRIBUTION OF OXYGEN-PILO		EACB		AC			2222222
37HUSE QUICK DISCONN TO MASK	47217	EACBA		ACB		8	
A37 UXYGEN PLUMBING	47213	EACBZ		ACB		2	
37REGULATION OF OXY-INST		EACC		ACA	EACG		444444
37REGULATOR	47211	EACCA		ACC		8	
37HOSE, QUICK DISCONN TO REG	47216	EACCB	E	ACC		5	

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37REGULATION OF OXYGEN-PILOT		EALD	EACH			111111111
37REGULATOR	47211	EACDA	EACD		8	
37HOSE QUICK DISCONN TO REG	47216	EACDB	EACD		8	
37SOURCE OF DXYGEN		EACE	EAC		S	22222222
37		EACE	FACC		F	AAAAAAAA
37		EACE	EACD		F	AAAAAAAA
37CYLINDER BOTTLE	47111	EACEA	EACE		A	
37FILLER VALVE	47112	EACEB	FACE		1	
T37BRACKET-FILLER VALVE	47113	EACEC	EACE		0	
37DISCONNECT	47114	FACED	EACE		1	
37SUPPLY TO REGULATUR HOSE	47116	EACEE	EACE		8	
A37 CHECK VALVE	47212	EACEZ	EACE		1	
37EMERGENCY OXYGEN SOURCE-INS		EACG	EACA	K E	ACC .	
37BAILOUT BOTTLE	99220	EACGA	EACG		8	
37EMERGENCY OXYGEN SOURCE-PIL		EACH	EACB	K E	ACD	ΛΑΑΛΛΑΑΛ
37BAILOUT BOTTLE	9977E	EACHA	FACH		8	
37INTERNAL LIGHTS		EAU	EB			011111110
37PRIMARY INSTR. LIGHTS		EADA	EAD			111111111
37INST LIGHT- L OIL PRESS.	44211	EADAA	EADA		1	
37INST LIGHT-L LOADMETER	44211	EADAAA	EADA		1	
37INST LIGHT- ACCELEROMETER	44211	EADAB	EADA		2	
37INST LIGHT- R OIL PRESS.	44211	EADAC	EADA		1	
37INST LIGHT- L FUEL FLOW	44211	EADAD	EADA		1	
37 INST LIGHT- R FUEL FLOW	44211	EADADA	EADA		1	
37INST LIGHT- R EGT [1	44211	EADAEA	EADA		1	
37INST LIGHT- R EGT 12	44211	EADAEB	EADA		1	
37 INST LIGHT- R TACH 11	44211	EADAEC	EADA		1	
37INST LIGHT- R TACH 12	44211	EADAED	EADA		1	
37INST LIGHT- HYDRAUL PRESS.	44211	EADAF	EADA		1	
37 INST LIGHT- FUEL ONTY	44211	EADAGA	EADA		Û	
37INST LIGHT- FUEL ONTY	44211	EADAGE	EADA		0	
37INST LIGHT- FUEL ONTY	44211	EADAGC	EADA		0	
37INST LIGHT- OXYGEN - PILOT	44211	EADAHA	EADA		1	
37INST LIGHT- OXYGEN - INSTR.	44211	EADAHB	EADA		0	
37INST LIGHT- FLAP POSITION 37INST LIGHT- PANEL	44211	EADAJ EADAK	EADA EADA			011111110
37 INST .L IGHT - PANEL [1	44211	EADAKA	EADA	,	1	ollilli
37INST .LIGHT - PANEL 1	44211	EADAKB	EADA		i	
37INST.LIGHT - PANEL 11	44211	EADAKC	EADA		i	
37INST .L IGHT - PANEL 11	44211	EADAKD	EADA		i	
37INST.LIGHT - PANEL 11	44211	EADAKE	EADA		i	
37INST.LIGHT - PANEL 11	44211	EADAKE	EADA		i	
37INST .LIGHT - PANEL 12	44211	EADALA	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALB	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALC	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALU	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALE	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALF	EADA		i	
37INST .L IGHT - PANEL 12	44211	EADALG	EADA		i	
37INST.LIGHT - PANEL 12	44211	EADALH	EADA		1	
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371NST_LIGHT - PANEL 2					
371NST.LIGHT - PANEL 2					
371NST LIGHT L EGT 1	37 INST . LIGHT - PANEL 12	44211		FADAK	
371NST LIGHT L EGT 1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
371NST LIGHT- LEOT 12	그 아이들은 사람들이 얼마나 되었다. 아이들은 아이들은 사람들은 사람들이 아니는 그들은 사람들이 되었다면 되었다.				
371NST LIGHT					i i
37INST LIGHT - L TACH 2					ī
37P. MARY FLIGHT INST. LIGHTS EADB EADB 1 37LIGHT TURN					
37LIGHT - TURN & SLIP -PILOT 44211 EADBB EADB 1 37LIGHT - AIRSPEED - PILOT 44211 EAUBB EADB 1 37LIGHT - AIRSPEED - PILOT 44211 EAUBC EAUB 2 37LIGHT - AIRSPEED - INST. 44211 EAUBC EAUB 2 37LIGHT - AIRSPEED - INST. 44211 EAUBC EAUB 2 37LIGHT - ALTIMETER - PILOT 44211 EAUBE EAUB 2 37LIGHT - ALTIMETER - PILOT 44211 EAUBE EAUB 2 37LIGHT - ALTIMETER - INST. 44211 EAUBF EAUB 2 37LIGHT - MAD AITITAIND. 44211 EAUBF EAUB 5 37LIGHT - CLIMB RATE 44211 EAUBH EAUB 3 37LIGHT - COMPASS 44211 EAUBJA EAUH 0 37LIGHT - COUNSE INDICAT 44211 EAUBJA EAUH 0 37LIGHT - SOUNT COMPASS 44211 EAUBJA EAUH 0 37LIGHT - STORY COMPASS 44211 EAUBJA EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37SECONDARY INSTRUMENT LITES EAUC EAUB 1 37SECONDARY INSTRUMENT LITE 3 44212 EAUCC EAUB 1 37SECONDARY INSTRUMENT LITE 3 44212 EAUCC EAU 1 37SECONDARY INSTRUMENT LITE 3 44212 EAUCC EAUC 1 37SECONDARY INSTRUMENT LITE 4 44212 EAUCC EAUC 1 37SECONDARY INSTRUMENT LITE 5 44214 EAUCC EAUC 1 37SECONTROL PRIMARY INSTRUMENT LITE 5 EAUC EAUC 1 37CONTROL PRIMARY INST LITES EAUC EAUC 1 37CONTROL PRIMARY INST LITES EAUC EAUC EAUC 1 37CONTROL PRIMARY INST LITES EAUC EAUC EAUC 1 37CONTROL PRIMARY INST LITES EAUC EAUC EAUC 1 37CONTROL COCKPIT LITES EAUC EAUC EAUC 1 37CONTROL COCKPIT LITES EAUC EAUC EAUC 1 37CONTROL PRIMARY INST LITES EAUC EAUC EAUC 1 37CONTROL COCKPIT LITES EAUC EAUC EAUC	T37 CANOPY EMERGENCY SWITCH	11146	EADAZZW	EADX	o
37LIGHT - TÜRN & SLIP -INST.	37PKIMARY FLIGHT INST. LIGHTS		EADB	EAD	22222222
37LIGHT - AIRSPEED - PILOT	37LIGHT - TURN & SLIP -PILOT	44211			
37LIGHT - ALTIMETER - PILOT	37LIGHT - TURN & SLIP -INST.	44211	EADBB	EADB	1
37LIGHT - ALTIMETER - PILOT	37LIGHT - AIRSPEED - PILOT	44211	EADBC	EADB	2
37LIGHT - ALTIMETER - PILOT	37LIGHT - AIRSPEED - INST.	44211	EADBD	EADB	2
37LIGHT - ALTIMFIER - INST. 44211 EAUBF EAUB S 37LIGHT - MM-3 ATTIT.IND. 44211 EAUBG EAUB S 37LIGHT - CLIMB RATE 44211 EAUBG EAUB 3 37LIGHT - J-2 COMPASS 44211 EAUBJA EAUB 0 37LIGHT - GUURSE INDICAT 44211 EAUBJA EAUB 0 37LIGHT - RADIO MAGNET COMP 44211 EAUBJB EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37LIGHT - CLOCK 44211 EAUBJC EAUB 0 37LIGHT - CLOCK EAUB 0 37LIGHT - STORY COMPASS 44211 EAUBJC EAUB 0 37SECONDARY INSTRUMENT LITE 1 EAUBLC EAUB 1 37SECONDARY INSTRUMENT LITE 3 44212 EAUBC EAUB 1 37SECONDARY INSTRUMENT LITE 3 44212 EAUBC EAUB 1 37SECONDARY INSTRUMENT LITE 5 44214 EAUBC EAUB 1 37CONTROL PRIMARY FLIGHT LITES EAUB EAUF 1 37CONTROL PRIMARY INST LITES EAUB EAUB 1 37CONTROL PRIMARY INST LITES EAUB EAUB AAAAAAAAA AAAAAAAAAAAAAAAAAAA	37LIGHT - ALTIMETER - PILOT	44211	EADBE	EADB	
37LIGHT - MM-3 ATTIT.IND.	37LIGHT - ALTIMETER - INST.	44211	EADBF	EADB	
37LIGHT - CLIMB RATE	37LIGHT - MM-3 ATTIT.IND.	44211	EADBG	FAD8	
37LIGHT - CUURSE INDICAT	37LIGHT - CLIMB RATE	44211	EADBH	EADB	
37LIGHT - KADIO MAGNET CUMP 44211	37LIGHT - J-2 COMPASS	44211	EADBJA	EADB	0
37LIGHT - STOBY COMPASS	37LIGHT - COURSE INDICAT	44211	EADBJB	EADB	C
37LIGHT - STOBY COMPASS	37LIGHT - RADIO MAGNET COMP	44211	EAUBJC	EAUB	0
37SECONDARY INSTRUMENT LITES		44211	EADBJD	EADB	0
375ECONDARY INSTRUMENT LITES	37LIGHT - CLOCK	44211	EADBK	LADB	0
375ECONDARY INSTRUMENT LITE 1 44212 EADCA			EADC		111111111
3/SECONDARY INSTRUMENT LITE 2 44212 EADCB EADC 1 37SECONDARY INSTRUMENT LITE 3 44212 EADCC FADC 1 37SECONDARY INSTRUMENT LITE 4 44212 EADCU EADC 1 37SECONDARY INSTRUMENT LITE 4 44212 EADCU EADC 1 3/RADIO LITES EADD EAD 00111110 37LIGHT-RADIO 44211 EADDA EADD 5 37COCKPIT LITES EADF EAD 1 3/SPOT LITE 1 44213 EADFA EADF 1 3/SPOT LITE 2 44213 EADFB EADF 1 3/COCKPIT LITE 1 44214 EADFC EADF 1 3/COCKPIT LITE 1 44214 EADFC EADF 1 3/COCKPIT LITE 1 EAUGA EADF 1 3/COCKPIT LITE 1 EAUGA EADF 1 3/COCKPIT LITE 1 EAUGA EADF 1 3/CONTROL PRIMARY FLIGHT LITES EAUG EADB AAAAAAAAA 37CONTROL PRIMARY INST LITES EAUH EADA AAAAAAAAA 37CONTROL PRIMARY INST LITES EAUH EADA AAAAAAAAA 37CONTROL PRIMARY INST LITES EAUH EADA AAAAAAAAA 37CONTROL RADIO LITES EADJ EAUC AAAAAAAAA 37CONTROL RADIO LITES EADJ EAUC AAAAAAAAA 37CONTROL RADIO LITES EADA EADH A 37CONTROL COCKPIT LITES EADJ EAUC AAAAAAAAA 37CONTROL COCKPIT LITES EADA EADA EADA AAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAAA 37CONTROL COCKPIT MAINT NED EADX DC FAAAAAAAAA AAAAAAAA 37CONTROL COCKPIT MAINT NED EADX BAAAAAAAA EADX DC FAAAAAA		44212			
37SECONDARY INSTRUMENT LITE 3 44212 EAUCU EAUCU EAUCU 1 37SECONDARY INSTRUMENT LITE 4 44212 EAUCU EAUCU 1 37SECONDARY INSTRUMENT LITE 5 EAUCU EAUCU 1 37SECONDARY INSTRUMENT LITE 5 EAUCU EAUCU 1 37SECONDARY INSTRUMENT LITE 5 EAUCU EAUCU 1 37SECONDARY INSTRUMENT LITE 1 EAUCU EAUCU 1 37COCKPIT LITE 1 EAUCU EAUCU 1 37COCKPIT LITE 2 44213 EAUF 1 37COCKPIT LITE 2 44214 EAUFU EAUFU 1 37COCKPIT LITE 2 44214 EAUFU EAUFU 1 37CONTROL PRIMARY FLIGHT LITES EAUG EAUG AAAAAAAAA AAAAAAAAA 37THEOSTAT 44413 EAUGU AAAAAAAAA AAAAAAAAAA 37THEOSTAT 44413 EAUCU AAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAA	3/SECONDARY INSTRUMENT LITE 2	44212	EADC B	EADC	
37SECONDARY INSTRUMENT LITE 5 44212 EADC EADC 1 37RADIO LITES EADD EAD 001111110 37LIGHT-RADIO 44211 EADDA EADD 5 37COCKPIT LITES EADF EADF 1 37SPUT LITE 1 44213 EADFA EADF 1 37SPUT LITE 2 44213 EADFB EADF 1 37COCKPIT LITE 1 44214 EADFC EADF 1 37COCKPIT LITE 2 44214 EADFD EADF 1 37COCKPIT LITE 2 44214 EADFD EADF 1 37CONTROL PRIMARY FLIGHT LITES EADG EADB AA4AAAAAA 37CONTROL PRIMARY INST LITES EADH EADD AAAAAAAAA 37RHEOSTAT 44413 EADHA EADH A 37CUNTROL SECONDAKY INST LITES EADJ EADC AAAAAAAAA 37RHEOSTAT 44413 EADHA EADH A 37CUNTROL RADIO LITES EADD EADC AAAAAAAAA 37RHEOSTAT 44413 EADHA EADH A 37CUNTROL COCKPIT LITES EADK EADD AAAAAAAAA 37RHEOSTAT 44413 EADHA EADH A 37CUNTROL COCKPIT LITES EADK EADD AAAAAAAAA 37RHEOSTAT 44413 EADKA EADK A 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAAA 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAAA 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37CUNTROL COCKPIT LITES EADM EADK O FAAAAAAAAA GAAAAAAAA GAAAAAAAA EADF AAAAAAAAAA EADF AAAAAAAAAA			EAUCC		
37RADIO LITES	37SECONDARY INSTRUMENT LITE 4	44212	EADCD	EADC	1
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37COCKPIT LITES 44213 EADFA 37SPUT LITE 1 37SPUT LITE 2 44213 EADFB EADF 1 37COCKPIT LITE 2 44214 EADFC 37COCKPIT LITE 1 37COCKPIT LITE 1 44214 EADFD 37COCKPIT LITE 2 44214 EADFD 37CONTROL PRIMARY FLIGHT LITES EAUG 37CONTROL PRIMARY INST LITES 44413 EADGA 37CONTROL PRIMARY INST LITES EAUH 37CONTROL SECONDARY INST LITES 44413 EADHA 37CONTROL SECONDARY INST LITES 44413 EADHA 37CONTROL RADIU LITES EADJ EADC AAAAAAAAA 37RHEOSTAT 44413 EADKA BADJ AAAAAAAAAA 37CONTROL COCKPIT LITES EADK EADK AAAAAAAAAA 37CONTROL COCKPIT LITES EADM AAAAAAAAAA 37CONTROL COCKPIT LITES EADM AAAAAAAAAA 37CONTROL COCKPIT LITES EADM AAAAAAAAAA AAAAAAAAA AAAAAAAAA AAAA	37RADIO LITES		EADD	EAU	001111110
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37RHEOSTAT 44413 EADHA EADH A 37CUNTROL SECONDARY INST LITES EADJ EADC AAAAAAAAA 37RHEOSTAT 44413 EADJA EADD AAAAAAAAA 37RHEOSTAT 44413 EADK EADD AAAAAAAAA 37RHEOSTAT 44413 EADKA EADK A 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37RHOESTAT 44413 EADMA EADM A 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADZ GIIIIIIIO 37 CANOPY MOTOR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37RHEUSTAT	44413	EADGA	EADG	A
37CUNTROL SECONDARY INST LITES EADJ EADC AAAAAAAAA 37RHEOSTAT 44413 EADJA EADJ A AAAAAAAAA 37RHEOSTAT 44413 EADK EADD AAAAAAAAA 37RHEOSTAT 44413 EADKA EADK A 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37RHOESTAT 44413 EADMA EADM A 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADZ GIIIIIIIO 37 CANOPY MOTOR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37CONTROL PRIMARY INST LITES		EADH	EADA	AAAAAAAA
37RHEOSTAT 44413 EADJA EADJ A 37CUNTROL RADIU LITES EADK EADD AAAAAAAAA 37RHEOSTAT 44413 EADKA EADK A 37CUNTROL COCKPIT LITES EADM EADF AAAAAAAAA 37RHOESTAT 44413 EADMA EADM A 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADZ GIIIIIIIO 37 CANOPY MOTUR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37RHEOSTAT	44413	EADHA	EADH	A
37CONTROL RADIO LITES EADK EADD AAAAAAAA 37RHEOSTAT 44413 EADKA EADK A EADK A 37CONTROL COCKPIT LITES EADM EADF AAAAAAAAA 37RHOESTAT 44413 EADMA EADM A EADM A 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADZ GIIIIIIIO 37 CANOPY MOTOR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37CUNTROL SECONDARY INST LITE	S	EADJ	EADC	AAAAAAAA
37RHEOSTAT 44413 EADKA EADK A 37CONTROL COCKPIT LITES EADM EADF AAAAAAAAA 37RHOESTAT 44413 EADMA EADM A 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX FAOZ GIIIIIIIO 37 CANOPY MOTOR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB FAOX 2	37RHEOSTAT	44413	EADJA	FADJ	A
37 CANOPY INTEGRITY MAINT NED EADX EADX GILLLIIO 37 CANOPY INTEGRITY MAINT NED EADX EADX GILLLIIO 37 CANOPY INTEGRITY MAINT NED EADX EADZ GILLLIIO 37 CANOPY MOTOR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37CONTROL RADIO LITES		EADK	EADD	AAAAAAAA
37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADX GIIIIIIIO 37 CANOPY MOTUR 11142 EAUXA EAUX O 37 CANOPY LIMIT SWITCH 11141 EADXB EAOX 2	37RHEOSTAT	44413	EADKA	EADK	A
37 CANOPY INTEGRITY MAINT NED EADX DC FAAAAAAAAA 37 CANOPY INTEGRITY MAINT NED EADX EADZ GIIIIIIIO 37 CANOPY MOTUR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37CONTROL COCKPIT LITES		EADM	EAUF	AAAAAAAA
37 CANUPY INTEGRITY MAINT NED EADX FADZ G11111110 37 CANUPY MOTUR 11142 EADXA EADX O 37 CANUPY LIMIT SWITCH 11141 EADXB FADX 2	37RHUESTAT	44413	EADMA	EADM	A
37 CANOPY MOTUR 11142 EADXA EADX O 37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2			EADX	DC	FAAAAAAAA
37 CANOPY LIMIT SWITCH 11141 EADXB EADX 2	37 CANUPY INTEGRITY MAINT NE	O	EADX	EADZ	611111110
			EAUXA	EADX	
37 CANOPY LUCK 11137 EADXC EADX 2		11141	EADXB	EAOX	
	37 CANOPY LOCK	11137	EADXC	EADX	2

PGG095.J1R1 DATE = 09/17/75			FLIGHT	SAFETY	PREDI	CTION	TECHNIQU
00000000011111111112222222222	3333333	334444444	44555555	5555666	666666	67777	777778
123456789012345678901234567890	1234567	8901234567	89012345	5789012	345678	90123	4567890
37 CANOPY DE.CLUTCH HANDLE	11136	EADXO		EADX		0	
37 CANOPY HANDLE	11135	EADXE		EADX		0	
37 CANOPY FLOOR SUPPORT	11134	EADXF		EADX		0	
37 CANOPY CONNECTER	11133	EADXG		EADX		0	
37 CANOPY DOWNLOCK ROLLER	11131	EADXH		EADX		0	
37 CANOPY HOOK	11128	EADXJ		EADX		1	
37 CANOPY LATCH ASSY	11127	EADXK		EADX		2	
37 CANOPY LINKAGE	11126	EADXL		EADX		0	
A37 CANDPY HINGE ARM	11125	EADXM		EADX		0	
A37 CANOPY ACTUATOR	11124	EADXN		EADX		0	
A37 CANOPY RETAINER	11123	EADXP		EADX		2	
A37 CANOPY FRAME	11122	EADXQ		EADX		ī	
A37 CANOPY PANEL	11128	EADXR		EADX		i	
A37 CANOPY SEAL	1112A	EADXS		EADX		2	
A37 CANOPY ASSY	11121	EADXT		EADX		ō	
A37 WINDSHIELD ORLON EDGE	11115	EADXU		EADX		o	
A37 WINDSHIELD MAG ROD	11114	EADXV		EADX		ŏ	
A37 WINDSHIELD RETAINER	11113	EADXW		EADX		2	
A37 WINDSHIELD LH PANEL	11118	EADXX		EADX		1	
A37 WINDSHIELD RH PANEL	11114	EADXY		EADX		1	
T37 WINDSHIELD ASSY	iiiii	EADXZ		EADX		2	
		EADZ				_	1111116
37 CANOPY INTEGRITY ATTENUAT	44414			EA		0	1111110
		EADZY		EAD			
37 BRIGHT/DIM SW	44412	and the same of th		EAD		1	
T37 EMERGERCY SWUTCH	11146	EADZZU		EADZ		0	
37 CANOPY INTERNAL SWITCH	11145	EADZZX		EADX		0	
37 CANOPY EXTERNAL SWITCH	11144	EADZZY		EADX		0	
37 CANOPY NOT. LOCKED SWITCH	N. CO. LANCOUNT.	EADZZZ		DC		8	
37INST.LIGHT - PANEL 12	44211	EAKALL		EADAK			
37INST.LIGHT - PANEL 12	44211	EAKALM		EADAK		1	
37INST .L IGHT - PANEL 12	44211	EAKALN		EADAK		1	
37INST.LIGHT - PANEL 12	44211	EAKALP		EADAK		1	
37 LIGHTING		EB		E	0		1111121
37 ATTENUATION		EBA		EB			1111111
37 EXTERNAL LIGHTING		EBB		EBA		-	1111110
37POSITION LITES		EBBA		EBB			0000000
37LENS LOWER POSITION LITE	44118	EBBAA		EBBH		0	
37NAVIGATION LITES		EBBB		EBB			000000
A37 NAV LITE REFLECTOR	44118	EBBBZZ		EBBB		0	
T37PASSING LIGHT		EBBC		EBB		00	0000000
T37PASSING LITE ASSEMBLY	44117	EBBCA		EBBC		A	
37LANDING LITE		EBBD		EBB			0400000
37LANDING LITE LT WING	44113	EBBDA		EBBO		5	
37LANDING LITE RT WING	44113	EBBDB		EBBO		5	
37LANDING LIGHT REVERSE MOTOR	44425	EBBOC		EBBD		0	
37TAXI LITE		EBBE		FBB		00	0000000
37TAXI LITE NOSE	44114	EBBEA		LBBE		A	
37ANTICOLLISION BEACONS		EBBF		EBB		00	000000
37ANTICOLLISION BEACON UPPER	44116	EBBFA		EBBF		5	
37ANTICOLLISION BEACON LOWER	44116	EBBFB		EBBF		5	

PGG095.J1R1 DATE = 09/1	7/75		FLIGHT SAFETY	PREDIC	TION TECHNIQUE
000000000111111111122222	2222333333333	3344444444	445555555555666	6666666	777777778
1234567890123456789012345					
37UPPER POSITION LITE		EBBG	EBBA		05555550
37LENS UPPER POSITION LI	TE 4411B	EBBGA	EBBG		0
37UPPER POSITION LITE AS		EBBGB	EBBG		A
37LOWER POSITION LITE		EBBH	EBBA		05555550
37LENS NAV LIGHT	4411A	EBBHA	EBBM		0
37LOWER POSITION LITE AS	SY 44112	EBBHB	EBBA		A
37NAVIGATION LITE RT WIN		EBBJ	EBBB		011111110
37LENS NAV LITE RT WING	4411A	EBBJA	EBBJ		O
37NAV LITE ASSY RT WING	44111	EBBJB	EBBJ		A
37NAVIGATION LITE LT WIN	G	EBBK	EBBB		011111110
37LENS NAV LITE LT WING	4411A	EBBKA	EBBK		0
37NAV LITE ASSY LT WING	44111	EBBKB	EBBK		A
37NAV LITE TAILCONE WHIT	£	EBBL	EBBB		011111110
37LENS NAV LITE TAILCONE	WHITE4411A	EBBLA	EBBL		0
T37NAV LITE ASSY TAILCONE	WHITE44111	EBBLB	EBBC		A
37NAV LITE TAILCONE AMBE	R	EBBM	EBBB		011111110
37NAVIGATION LIGHT ASSY.	44111	EBBMB	EBBM		A
T37GEAR POWR INDICATOR		EBBN	EBBC		AAAAAAAA
T37FLASHER UNIT	44422	EBBNA	EBBN		A
37LANDING LITE CONTROL		EBBT	EBBD		AAAAAAAA
37		EBBT	FBBE		
37TOGGLE SWITCH	44411	EBBTA	EBBT		A
37 CONTROL BOX	44424	EBBTX	EBBT		8
37 RESISTOR	44423	EBBTY	EBBT		1
37 RELAY	44421	EBBTZ	EBBT		5
37FLASHER UNIT	44422	EBBU	EBBB		1
37TOGGLE SWITCH	44411	EBBVA	EBBB		8
37TUGGLE SWITCH	44411	EBBXA	EBBF		A
37 WIND SHIELD CLEAR		EC	EA	G	C100000A0
37 RAIN-CLEAR FLUID DISP		ECA	EC		ΑΑΑΑΑΑΑΑ
37 RAIN CLEAR FLUID SUPP		ECB	ECA		AAAAAAAA
37 RAIN CLEAR SIGHT RESE		ECBU	08		0
37 RAIN CLEAR FLUID PLUM		ECBV	ECB		2
37 RAIN CLEAR FLUID VALV		ECBW	ECB		5
37 RAIN CLEAR FLUID NOZZ		ECBX	ECB		5
37 KAIN CLEAR FLUID MANI		ECBY	ECB		5
37 RAIN CLEAR FLUID TANK	49211	ECBZ	ECB		8
37 WIND SHIELD CLEAR CON		ECC	ECA		AAAAAAAA
37 WIND SHIELD CLEAR TIM		ECCY	ECC		5
37 WIND SHIELD CLEAR SWI	TCH 49221	ECCZ	ECC		
37 FLIGHT CONTROL		FA	F		
37 LIFT AUGMENTATION 37 FLAPS POSITIONED		FAA	FA		010000030
		FAA	FASB		FAAAAAAAA
37 FLAPS POSITIONED 37 SYNCHRONIZING	VALVE14422	FAAX	FAA	THE STATE	5
37 FLAP BLOW-UP VALVE	9914A	FAAY	FAA		2
37 FLAP SYNCH CABLES	14416	FAAZ	FAA		5
A37 AIRCRAFT GRUSS WT CON		FAB	FA	K BA	000000030
37 LEFT FLAP EXTENDED		FAC	FAA	N 04	AAAAAAAA
37 LEFT FLAP LINKAGE	14418	FACR	FAC		5

PGG095.J1R1 DATE = 09/17/75			FLIGHT	SAFETY	PREDICTION TECHNIQ
0000000001111111111222222222233					
1234567890123456789012345678901			789012345		345678901234567890
37 LEFT FLAP RESTRICTOR	14422	FACS	•	FAC	2
37 LEFT FLAP ACTUATOR	14421	FACT		FAC	5
37 LEFT FLAP HINGE	14414	FACU		FAC	2
37 LEFT FLAP SKIN	14413	FACV		FAC	0
37 LEFT FLAP FRAME	14412	FACH		FAC	0
37 LEFT FLAP ASSEMBLY	14411	FACX		FAC	5
37 LEFT FLAP CHAFING STRIP	1441C	FACY		FAC	0
37 LEFT FLAP BEARINGS	14418	FACZ		FAC	1
37 RIGHT FLAP EXTENDED		FAD		FAA	AAAAAAAA
37 RIGHT FLAPLINKAGE	14418	FADR		FAD	5
37 RIGHT FLAPRESTRICTOR	14422	FAUS		FAD	2
37 RIGHT FLAPACTUATOR	14421	FADT		FAD	5 .
37 RIGHT FLAPHINGE	14414	FADU		FAD	2
37 RIGHT FLAPSKIN	14413	FADV		FAD	0
	14412	FADW		FAD	0
37 RIGHT FLAPASSEMBLY	14411	FADX		FAD	5
37 RIGHT FLAPCHAFING STRIP	1441C	FADY		FAD	0
	14418	FADZ		FAD	1
37 FLAPS ACTUATED		FAE		FAA	SAAAAAAAA
37 FLAPS ACTUATED		FAE		FAC	FAAAAAAAA
37 FLAPS ACTUATED		FAE		FAD	FAAAAAAAA
	14416	FAEY		FAE	5
37 FLAP SYNCH VALVE	14423	FAEZ		FAE	8
37 HYDRAULIC DISTRIBUTED	14423	FAF		FAA	AAAAAAAA
37 HYDRAULIC DISTRIBUTED		FAF		FAE	FAAAAAAAA
37 HYDRAULIC DISTRIBUTED		FAF		FAL	FAAAAAAAA
37 FLAPS CONTROLLED		FAG		FAE	ΑΑΑΑΑΑΑΑ
37 LEFT FLAP CONTROL		FAH		FAG	111111111
37 LEFT FLAP CONTROL HANDLE	00148	FAHZ		FAH	2
37 RIGHT FLAP CONTROL	,,,,,	FAJ		FAG	111111111
37 RIGHT FLAP CONTROLHANDLE	99148	FAJZ		FAJ	2
37 PILOT ACTION	77140	FAK		FAG	ΑΑΑΑΑΑΑΑ
37 STALL WARNING BUFFET		FAKA		FAK	22222222
37 FLAP POSITION INDICATED		FAKB		FAK	000000000
37 FLAP POSITION INDICATED	51422	FAKBY		FAKB	5
37 FLAP POSITION INDICATOR		FAKBZ		FAKB	2
37 SPOILERS ACTUATED	131721	FAL		FALA	AAAAAAAA
37 SPOILERS DEPLOYED		FALA		FAKA	ΑΑΑΑΑΑΑΑ
	14414	FALAW		FALA	5
37 SPOILER HINGE	14614	FALAX		FALA	0
37 SPOILER SKIN					Ö
37 SPOILER FRAME	14612	FALAY		FALA	5
37 SPOILER ASSEMBLY	14611	FALAZ		FALA	5
37 SPOILER ACTUATOR	14621	FALY		FAL	5
37 SPOILER LINKAGE	14615	FALZ		FAL	
37 SPOILER DEPLOYMENT INITIAL		FAS		FAL	
37 LIFT DATA SENSED		FASA		FAS	AAAAAAAA
37 LIFT TRANSDUCER	14631	FASAZ		FASA	5
37 FLAP POSITION SENSED		FASB		FAKB	FAAAAAAAA
37 FLAP POSITIONED SENSED		FASB		FAS	
37 DETENT	14417	FASBW		FASB	1

PGG095.J1R1 DATE = 09/17/75	FL IGHT	SAFETY PREDI	CTION TECHNIQUE
600600060111111111122222222233333333			
1234567890123456789012345678901234567			3901234567890
37 FLAP POS.CABLE HOUSING 14410	FASBX	FASB	0
37 FLAP POSITION CABLE 14415	FASBY	FASB	5
37 FLAP POSITION SENSE ARM 1441A	FASBZ	FASB	5
37 CONTROL SWITCH 14633	FASH	FAS	5
37 LIFT COMPUTER 14632	FASX	FAS	8
37 SPOILER RESTRICTOR 14623	FASY	FAS	2
37 SPOILER CONTROL VALVE 14622	FASZ	FAS	8
37 FLIGHT SPEED CONTROLLED	FB	FX	000010110
37 THRUST ATTENUATORS EXTENDED	FBA	FB	000000010
37 THRUST ATTENUATOR EXTEND	FBAA	FBA	AAAAAAAA
STHRUST ATTENUATOR EXTENDED	FBAA	FBP	33333333
37 ATTEN. LINKAGE 14517	FBAAV	FHAA	5
37 ATTEN. LINK TUBE 14516	FBAAW	FBAA	0
37 ATTEN. RESTRICTOR 14526	FBAAX	FBAA	0
37 ATTEN. BELLCRANK 2 EA 14515	FBAAY	FBAA	2
37 ATTEN. ACTUATOR 14527	FBAAZ	FBAA	5
37 ATTENUATOR SEL VAL POSITN	FBAB	FBAA	AAAAAAA
37 THRUTTLE LIMIT SWITCH 14531	FBABY	FBAB	5
37 ATTEN. CONTROL VALVE 14525	FBABZ	FBAB	8
37 HINGE 2EA 14518	FBAX	FBA	5
37 ASSEMBLY 2EA 14511	FBAY	FBA	5
A37 ATTENUATOR PADDLE 2EA 1451A	FBAZ	FBA	0
T37 DEFLECTOR 1451C	FBAZ	FBA	0
37 SPEED BRAKES EXTENDED	F88	FB	55555555
37 SPEED BRAKE FATRING 14518	FBSW	FBB	1
37 SPEED BRAKE DOUR 1451A	FBBX	FBB	0
37 SPEED BRAKE HINGE 14514	FBBY	FBB	5
37 SPEED BRAKE ASSY 14512	FBBZ	FBB	5
37 SPEED BRAKES ACTUATED	FBC	F88	AAAAAAA
37 SPEED BRAKE LINKAGE 2EA14513	FBCY	FBC	2
37 SPEED BRAKE ACTUATOR 2E14523	FBC2 FBD	FBC	2
37 SPEED BRAKE/THRUST CONTROL 37 SPEED BRAKE/THRUST CONTROL	FBD	FB	5111111111
37 SPEED BRAKE/THRUST CONTROL 37 SPEED BRAKE/THRUST CONTROL	FBD	FBAA FBC	FAAAAAAAA
37 HYDRAULIC PRESSURE DIST	FBDC	FB	FAAAAAAAA
37 HYDRAULIC PRESSURE DIST	FBDC	FBAB	SAAAAAAAA
37 HYDRAULIC PRESSURE DIST	FBDC	FBE	FAAAAAAAA
37 MANUAL SHUT-OFF VALVE 14524	FBDC Z	FBDC	0
37 PRIORITY VALVE 14528	FBDZ	FBD	2
37 SPEED BRAKE SEL VALV POS.	FBE	FBC	********
37 SPEED BRAKE RESTRICTOR 14522	FBEY	FBE	0
37 SPEED BRAKE CONTROL VALVE 14521	FBEZ	FBE	8
37 SPEED BRAKE ENABLE	FBF	FBD	AAAAAAAA
37 SPEED BRAKE CONT SW. 2EA 14533	FBFY	FBF	1
37 SPEED BRAKE CIRCUIT BREAKR14532	FBFZ	FBF	5
37 THRUST ATTENUATOR RETRACT	FBP	BA	010000000
37 YAN CONTROL	FC	F	010010030
37 RUDDER POSITION	FCA	FC	AAAAAAAA
37 RUDDER HINGE 14327	FCAV	FCA	7
37 RUDDER BELLCRANKS 2 EACH 14321	FCAW	FCA	5

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00C00000011111111111222222222233 1234567890123456789012345678901				
	14313	FCAX	FCA	Ú
	14312	FCAY	FCA	o
	14311	FCAZ	FCA	8
37 RUDDER CONTROL MOTION XMIT		FCB	FCA	4444444
	14314	FCBY	FCB	5
37 RUDDER CABLE PULLEYS 14EA	14315	FCBZ	FCB	2
A37 YAW DAMPING		FCC	FCA	000000000
437 YAW INPUT SIGNAL	•	FCCA	FCC	AAAAAAAA
	14722	FCCAZ	FCCA	8
A37 PNEUMATIC PRESSURE		FCCB	FCC	55555555
	14713	FCCBW	FCCB	0
	14712	FCCBX	FCCB	2
	14725	FCCBY	FCCB	5
	14714	FCCBZ	FCCB	5
A37 YAW DAMPING CONTROL		FCCC	FCC	AAAAAAAA
the state of the s	14724	FCCCY	FCC	5
	14721	FCCC2	FCCC	5
A37 YAW DAMPING SELECTED		FCCD	FCCC	
A37 STICK GRIP DISCNX SWITC	14114	FCCDY	FCC	2
	14723	FCCDZ	FCCO	5
A37 CONTROL CABLE	14715	FCCY	FCC	5
A37 DAMPING SERVO ACTUATOR	14711	FCCZ	CCC	5
37 RUDDER PEDAL DISPLACEMENT		FCD	FCB	
37 LEFT RUDDER CONTROL		FCDA	FCD	111111111
37 LEFT RUDDER CONTROL		FCDA	FCU H	AAAAAAAA
	14328	FCDAT	FCDA	2
37 RUDDER PEDAL HINGE PIN	14327	FCDAU	FCDA	5
37 RUDDER PEDAL BUNGEE	14326	FCDAV	FCDA	0
	14324	FCDAW	FCDA	0
37 LEFT RUDDER PEDAL ADJUST	14318	FCDAX	FCDA	0
37 LEFT RUDDER PEDAL ZEA	14317	FCDAY	FCDA	5
37 LEFT RUDDER TORQUE TUBE	14316	FCDAZ	FCDA	2
37 RIGHT RUDDER CONTROL		FCOB	FCD	111111111
37 RIGHT RUDDER PEDAL SUPPORT	14328	FCOBT	FCDB	2
37 RIGHT RUDDER PEDAL HINGE	14327	FCDRU	FCDB	5
37 RIGHT RUDDER PEDAL BUNGEE	14326	FCDBV	FCDB	0
37 RIGHT RUDDER PEDAL BAL WT	14324	FCDBW	FCDB	0
37 RIGHT RUDDER PEDAL ADJUST	14318	FCDBX	FCDB	C
37 RIGHT RUDDER PEDAL ZEA	14317	FCDBY	FC08	5
37 RIGHT RUDDER TORQUE TUBE	14316	FCUBZ	FCDB	2
37 RUDDER TRIM POSITIONED		FCT	FC	000000000
37 RUDDER TRIM ACTUATED		FCTA	FCT	AAAAAAAA
37 RUDDER TCIRCUIT BREAKER	14332	FCTAY	FCTA	5
37 RUDDER TACTUATOR MOTOR	14333	FCTAZ	FCTA	7
37 RUDDER TRIM INITIATED		FCTB	FCTA	AAAAAAAA
37 RUDDER TRIM CONTROL SWITCH	14331	FCTBZ	FCTB	5
37 RUDDER TRIM TAB ACTUATOR M		FCTY	FCT	5
	14322	FCTZ	FCT	1
37 PITCH CONTROL		FD	F	OAAAAAAO
37 LEFT ELEVATOR POSITIONED		FDA	FD	55555555

0000	05 1101 0475 - 00/17/75		C. 1047 CACCT	V DOEDICTION TICIMION
PGGU	95.JIR1 DATE = 09/17/75		FLIGHT SAFET	Y PREDICTION TECHNIQUE
0000	000001111111111222222222333333	33366666666	44555555555	6666666777777777
	56789012345678901234567890123456			
37	LEFT FLEVATOR TORQUE TUBE 1421		FDA	5
37	LEFT ELEVATOR HINGE 3 EA 14214		FUA	5
37	LEFT ELEVATOR SKIN 1421.		FUA	ő
37	LEFT ELEVATOR FRAME / RIBS14212	The state of the s	FDA	o
37	LEFT ELEVATOR ASSEMBLY 1421		FDA	5
T37	LEFT ELEVATOR TIP 1421		FDA	ó
37	RIGHT ELEVATOR POSITIONED	FDB	FD	55555555
37	RIGHT ELEVATOR TORQUE TUBE 1421		FDB	5
37	RIGHT ELEVATOR HINGE 3EA 14214		FDB	5
37	RIGHT ELEVATOR SKIN 1421		FD8	ō
37	RIGHT ELEVATOR FRAME/RIBS 14212		FDB	o o
37	RIGHT ELEVATOR ASSEMBLY 1421		FDB	5
137	RIGHT ELEVATOR TIP 14214		FD8	0
37	ELEVATOR CONTROL MOTION	FDC	FD	SAAAAAAAA
37	ELEVATOR CONTROL MOTION	FUC	FDA	FAAAAAAAA
37	ELEVATOR CONTROL MOTION	FDC	FDB	FAAAAAAA
37	ELEVATOR DOWNSPRING 1422		FDC	2
37	ELEVATOR PUSH PULL RODS 1422		FDC	2
37	ELEVATOR QUADRANT 2EA 14218		FDC	2
37	ELEVATOR CABLE 1421		FUC	5
37	ELEVATOR CABLE PULLEY 14EA1421		FDC	2
37	CONTROL STICK DISPLACEMENT	FDE	FDC	ΑΑΑΑΑΑΑ
37	CONTROL STICK DISPLACEMENT	FDE	FEFD	
37	LEFT STICK CONTROL	FDEA	FOE	FAAAAAAA
37	LEFT STICK CONTROLLED	FDEA	FDE	11111111 H 99999999
37	LEFT STICK GRIP 14114		FDEA	0
37	LEFT STICK TO R LINKAGE 1411	The state of the s	FUEA	
37				2
37	LEFT STICK YOKE STICK 14116 LEFT STICK YOKE BEARING 14126	o mentioned and the second	FOEA	2
37			FDEA	0
37	RIGHT STICK YOKE 1412/	FDEAZ	FDE A FDE	5
37	RIGHT STICK GRIP 14114		FDEB	0 111111111
37	RIGHT STICK TO LEFT LINK 1411		FDEB	2
37	RIGHT STICK YOKE STICK 14116		FDEB	2
37	RIGHT STICK YOKE BEARING 14126		FDEB	0
37	RIGHT STICK YOKE DEARING 1412		FDEB	5
37	CONTROL STICK LINKAGE 14221		FDE	9
	PILOT ACTION	FDF	FDE	5 4 4 4 4 4 4 4 4
37	PILOT ACTION	FDF	FOTB	FAAAAAAA
				AAAAAAA
37	PITCH TRIM ACTUATION PITCH TRIM ACTUATION	FOT	FD FDTC	60000000
				FAAAAAAA
37	MOTION TRANSMITTED	FOTA	FDT	AAAAAAA
37	PITCH TRIM TRAVEL STOP 614220		FOTA	2
37	PITCH TRIM CIRCUIT BREAK14232	the second section of the second	FDTA	5
37	PITCH TRIM MOTOR 14233		FOTA	7
37	PITCH TRIM INITIATED	FOTB	FDTA	848 484444
37	PITCH TRIM CONTROL SWITCH 14231		FDTB	
37	PITCH TRIM STATUS INDCTED	FOTC	DC	1 FDT 010000000
37	PITCH TRIM STATUS INDCTED	FOTC	FDF	F010000000
137	PITCH TRIM STATUS LIGHT9944A	FDTCY	FDTC	A

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	000000111111111122222222233				
	4567890123456789012345678901				
A 3 7	ANUNCIATOR PANEL	4431A	FDTCZ	FDTC	A
37	PITCH TRIM PUSH PULL ROD	14222	FDTV	FDTA	2
37	PITCH TRIM HORN	14227	FOTH	FDT	5
37	PITCH TRIM SCREW JACK	1422A	FDTX	FOT	5
37	PITCH TRIM ACTUATING MECH		FDTY	FDT	5
37	PITCH TRIM TAB ASSY	14224	FDTZ	FOT	2
37	ROLL CONTROL		FE	F	OAAAAAAC
37	AILERON POSITION		FEB	FE	ΑΑΑΑΑΑΑ
37	LEFT AILERON POSITION		FEBA	FEB	111111111
37	AILERON QUADRANT	14121	FEBAT	FEBA	5
37	AILERON LINKAGE	14115	FEBAU	FEBA	5
37	AILERON HINGE PIN	14114	FEBAV	FEBA	5
37	AILERON SKIN LEFT	14113	FEBAW	FEBA	Ü
37	AILERON FRAME LEFT	14112	FEBAX	FEBA	0
37	AILERON ASSY LEFT	14111	FEBAY	FEBA	8
37	AILERON CABLE PULLEY TOE	14118	FEBAZ	FEBA	2
37	RIGHT AILERON POSITION		FEBB	FFB	111111111
37	RIGHT AILERON QUADRANT	14121	FEBBT	FEBB	5
37	RIGHT AILERON LINKAGE	14115	FEBBU	FEBB	5
37	RIGHT AILERON HINGE PIN	14114	FEBBV	FEBB	5
37	RIGHT AILERON SKIN	14113	FEBBW	FEBB	0
37	RIGHT AILERON FRAME	14112	FEBBX	FEBB	0
37	RIGHT AILERON ASSY	14111	FEBBY	FEBB	8
37	AILERON CABLE PULLEY 10EA	14118	FEBBZ	FEBB	2
37	LEFT AILERON ACTUATION		FEBC	FEBA	ΑΑΑΑΑΑΑ
	L SLOT LIP SPOILER ACTUATOR		FEBCR	FEBC	0
	L SLOT LIP SPOILER LINKAGE	Secretary and the same	FEBCS	FEBC	0
	L SLOT LIP SPOILER ASSY	14811	FEBCT	FEBC	O
A37	ACTUATING MECHANISM	1412C	FEBCU	FEBC	0
A37	BOOST TAB DAMPER	14120	FEBCV	FEBC	0
A37	LEFT AILERON BOOST TAB	14127	FEBCW	FEBC	0
37	LEFT AILERON CABLE	14117	FEBCX	FEBC	5
37	LEFT AILERON PUSH PULL ROD		FEBCY	FEBC	5
37	LEFT AILERON BELL CRANK	14122	FEBCZ	FEBC	5
37	RIGHT ALLERON ACTUATION		FEBD	FEBB	ΑΑΑΑΑΑΑΑ
	R SLOT LIP SPOILER ACTUATOR		FEBDR	FEBD	0
	R SLUT LIP SPOILER LINKAGE		FEBDS	FEBD	0
	R SLOT LIP SPOILER ASSY	14811	FEBOT	FFBD	0
A37	ACTUATING MECHANISM	1412C	FEBDU	FEBD	O
A37	BOOST TAB DAMPER	14120	FEBDV	FEBD	0
A37	RIGHT ALLERON BOOST TAB	14127	FEBOW	FEBD	0
37	RIGHT AILERUN CABLE	14117	FEBOX	FEBD	5
37	RIGHT ALLERON PUSHPULL ROD		FEBDY	FEBD	5
37	RIGHT AILERON BELL CRANK	14122	FEBDZ	FEBD	5
37	CONTROL STICK DISPLACEMENT		FEC	FEB	SAAAAAAA
37	CONTROL STICK DISPLACEMENT		FEC	FEBC	FAAAAAAAA
37	CONTROL STICK DISPLACEMENT		FEC	FEBD	FAAAAAAAA
37	CONTROL STICK DISPLACEMENT		FEC	FEFD	FAAAAAAAA
37	LEFT STICK CONTROLLED		FEDA	FEC	FE08 111111111
37	LEFT STICK CONTROLLED		FEDA	FLC	Н 99999999

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0.00	2400001111111111122222222			//EUSEEL	655		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	00000011111111112222222222223						
A37	456789012345678901234567890		the state of the s	090123450			
A37		1412t	FEDAT		FEDA	0	
31		1412F	FEDAU			0	
	LEFT STICK GRIP	14114	FEDAV		FEDA	2	
37	LEFT STICK CONTROL STICK	14116	FEDAX		FEDA	0	
37	LEFT STICK YOKE BEAKING	14126	FEDAY		FEDA	5	
	LEFT STICK YOKE	14124	FEDAZ		FEDA	,	
437	RIGHT STICK CONTROLLED RIGHT STICK DAMPER LEVER	14125	FEDB FEDBT		FEC	0	111111111
437		1412F			FEDB	ő	
37		1412F	FEDBU		FEDB	o	
37	RIGHT STICK GPIP	1411A 14115	FEDBY		FEDB	A	
	RIGHT STICK TO LEFT LINK		FEDBW			2	
37	RIGHT STICK CONTROL STICK		FEDEX		FEDB	Ú	
	RIGHT STICK YOKE BEARING	14128	FEDBY		FEDB	5	
37	RIGHT STICK YOKE	1412A	FEDBZ		FEUB	,	
437	PITCH/ROLL HARMONIZATION		FEFD		FD		000000000
A 37	PITCH/ROLL HARMONIZATION		FEFD		FE	5	000000000
A37	BOB WEIGHT	1421A	FEFDA		FEFD	,	
37	ROLL TRIM	1/105	FET		ff		000000000
37	TRIM TAB ACTUATING MECH	14125	FETAX		FET	3	
37	TRIM TAB ARM ASSY	14128	FETAY		FET	5	
37	TRIM TAB TRAVEL STOP	14126	FETAZ		FET	0	
37	ROLL TRIM CIRCUIT BREAKER		FETBY		fET	5	
37	ROLL TRIM ACTUATOR MOTOR	14133	FETBZ		FET	8	
37	ROLL TRIM CONTROL SWITCH	14131	FETCZ		FET	5	
37	TRIM TAB ASSEMBLY	14124	FETZ		FET	5	
	FLIGHT SPEED ATTENUATION		FX		F		000010110
	GROUND CONTROL		G				AAAAAAAA
37			GA		6	C	0000000A0
	SPEED CONTROLLED		GA		GAX		500000005
	SPEED CONTROL ATTENUATION		GAX		G		111111111
	DIRECTIONAL CONTROL		GB		G		110000011
	MOSE WHEEL STEER ACTUATED		GBAA		GBB		ΛΑΑΑΑΑΑΑ
31	CAM	13517	GBAAN		GBAA	2	
37	PUSH-ROD	13516	GBAAX		GBAA	5	
37	CONTRUL CABLE \$2EA	13514	GBAAY		GBAA	2	
37	CONNECTING ROD	13512	GBAAZ		GBAA	5	
37	STEERING COMMANDS INPUT		GBAB		GBAA		
37	NOSE WHEEL STEERING ENABLES		GBAC		GBAA		
37	HYD SWIVEL FITTING	13526	GBACS		GBAC	5	
37	TWO-WAY RESTRICTOR	13524	GBACT		GBAC	2	
37	HYD SHUTOFF VALVE	13523	GBACU		GRAC	8	
37	CIRCUIT BREAKER	13532	GBACV		GBAC	Λ	
37	NOSE WHEEL STEP SWITCH	13533	GBACW		GBAC	8	
37	SPEED BRAKE PRICKITY VALV		GBACX		GBAC	1	
37	NOSE GEAR SAFETY SWITCH	13233	GBACY		GBAC	Α	
37	STEERING ENGAGE SW. ZEA	9913A	GRACZ		GBAC	2	
37	PILOT STEERING ACTION		GBAD		GBAB	GBAE	111111111
37	PILOT STEEKING ACTION		GBAD		GBAE	н	AAAAAAAA
	BUINCE.	11.334	COADU		CAAD	^	

GBADW GBADX

14326

14328

37

BUNGEE

PEDAL SUPPORT

GBAD

GBAD

0

5

ARINC RESEARCH CORP ANNAPOLIS MD
DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS. VOLUME 7. A-37 A--ETC(U)
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F09603-72-A-1132 AD-A054 489 C54-01-1-1406-VOL-7 NL END DATE FILMED 7 -- 78 Complete Co.

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	4567890123456789012345678901			The same of the sa	3456789	
37		13412	GRADA	GRAD		2
37		13518	GBADZ	GBAD		5
	CO-PILOT STEERING ACTION		GBAE	GBAB		111111111
37	The state of the s	14326	GBAEW	GBAE		0
37		14328	GBAEX	GBAE		5
37		13412	GBAEY	GBAE		2
37		13518	GBAEZ	GBAE		5
A 37			GBB	G8	GBA	251111111
137	NOSE WHEEL STEERING EMPLOYD		GBB	GB	GBA	111111111
37		13515	GBBS	GBB		A .
37	NOSE WHEEL CENTER SPRING		GBBT	GBB		0
37		13722	GBBU	GBB		2
37		13712	GBBV	GBB		5
37		13212	GBBW	GBB		5
37		13211	GBBX	GBB		8
37	NOSE WHEEL STEERING ASSY	A TOTAL CONTRACTOR OF THE PARTY	GBBY	GBB		5
37	NOSE WHEEL STEERING VALVE	13525	GBBZ	GBB		8
	DIFFERENTIAL BRAKING		GBC	GB		210000000
	DIFFERENTIAL BRAKING		GBC	GB	K GBB	AAAAAAAA
37	NOSE WHEEL SHIMMY DAMPED		GBD	GB		011111110
37	NOSE WHEEL SHIMMY DAMPED		GBD	GRB		FAAAAAAAA
37	PRESSURE COMPENSATOR	13522	GBDY	GBD		2
37	NOSE WHEEL STEER VALVE	13525	GBUZ	GBD		8
37	WHEEL BRAKES APPLIED		GC	GA		88888888
37	WHEEL BRAKES APPLIED		GC	GBC		AAAAAAAA
37	LEFT WHEEL BRAKES APPLIED		GCA	GC		AAAAAAAA
137	BRAKE TORQUE FLANGE ZEA	13414	GCAV	GCA		5
T37	ADAPTOR PLATE	13417	GCAW	GCA		2
T37	BRAKE STATOR	13416	GCAX	GCA		5
137	BRAKE DISC	13415	GCAY	GCA		5
37	BRAKE ASSEMBLY	13411	GCAZ	GCA		8
37	RIGHT WHEEL BRAKES APPLIED		GCB	GC		AAAAAAAA
137		13414	GCBV	GCB		5
137	BRAKE ADAPTOR PLATE	13417	GCBW	GC8		2
T37	BRAKE STATOR	13416	GCBX	GCB		5
137	BRAKE DISC	13415	GCBY	GCB		5
37		13411	GCBZ	GCB		8
37	LEFT BRAKE ACTUATION		GCE	GCA		AAAAAAAA
37	RIGHT BRAKE ACTUATION		GCF	GCB		AAAAAAAA
37	HYDRAULIC FORCE TRANSFER		GCG	GC		SAAAAAAAA
37	HYDRAULIC FORCE TRANSFER		GCG	GCE		FAAAAAAAAA
37			GCG	GCF		FAAAAAAAA
37	HYDRAULIC XFER VALVE 2EA	13424	GCGZ	GCG		2
	LEFT HYDRAULIC PRESS XMIT		GCH	GCG		111111111
	LEFT HYDRAULIC PRESS XMIT		GCH	GCG	H	AAAAAAAA
37		13427	GCHY	GCH		5
37		13425	GCHZ	GCH		5
	RIGHT HYDRAULIC PRESS XMIT		GC J	GCG		111111111
37		13427	GC JY	GCJ		5
37	HYD. BLEED VALVE 2 EA	13425	GCJZ	GCJ		5

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	3000011111111112222222233				
	567890123456789012345678901				the second secon
	LEFT MECH TO HYD CONVERSION		GCK	GCH	
37	BRAKE CONTROL UNIT ZEA	13421	GCKZ	GCK	5
٦٢ د	KIGHT MECH TO HYD CONVERSOR	•	GCI.	GCJ	AAAAAAAA
37	BRAKE CONTROL UNIT ZEA	13421	GCLZ	CCL	5
31	PARKING BRAKE		GCW	GA	000000000
37	PILOT BRAKE COMMANU INPUT		GCWX	GCK	AAAAAAAA
37	BRAKE PEDAL BUNGEL	14326	GCWXW	CCWX	C
37	BRAKE PEDAL SUPPORT	14328	CCWXX	CCNX	5
37	BRAKE PEDAL LINKAGE	13413	GCWXY	GLWX	5
37	BRAKE PEDAL	13412	GCWXZ	GCWX	2
37	CO-PILOT BRAKE COMMAND		GCWY	GCL	AAAAAAAA
37	BRAKE PEDAL BUNGEE	14326	GCWYW	GCWY	0
37	BRAKE PEDAL SUPPORT	14328	GCWYX	GCWY	5
37	BRAKE PEUAL LINKAGE	13413	GCWYY	GCWY	5
37	BRAKE PEDAL	13412	GCWYZ	GCWY	2
37	PARKING BRAKE VALVE	13426	GCWZ	GC W	A
	LANDING GEAR	1342.0	L	SC N	AAUCOCCAA
	LANDING GEAR EXTENSION		LA		CACOCOCUO
-	LG EXTEND MOTIVE FORCE		LAA	L	AAAAAAAA
	LAND GEAR HETRACTION		LB		
			LC	LX	010000000
	NLG DOWN & LCCKED			14	ΑΑΑΑΑΑΑΑ
37			LC	LSt	PAAAAAAAA
37	NLG EXTEND ACTUATION		LCA	LC	ΛΑΑΑΑΑΑΑ
30.0	FILLER VALVE	13214	LCAU	LCV	0
37	NG BUNGEE	13217	LCAV	LCA	0
37	ACTUATING CYLINDER	13223	LCAW	LCA	8
37	NLG TRUNNION	13218	LCAX	LCA	5
37	TORQUE LINK	13214	LCAY	LCA	2
31	ACTUATOR SPRING	13210	LCAZ	LCA	5
37	NLG EDWNLUCK MECHANISM	13216	LCZ	LL	1
57	MLG DUWN &LOCKED		LU	LA	AAAAAAAA
37	MLG DOWN ELOCKED		LU	LSF	FAAAAAAAA
37	MLG ACTUATED		LDA	LO	ALAAAAAA
37	RCD END ZEACH	13138	LUAU	LDA	2
37	ACTUATING CYLINDER ZEACH	13135	LDAR	LDA	8
37	MLG SUPPORT 2 EACH	13123	LDAS	LLA	5
37	STRAP 2 EA	13122	LDAT	LDA	0
37	TRUNNION MLG 2 EACH	13121	LDAU	LDA	5
37	TORQUE TUBE 2 FACH	13116	LDAV	LOA	2
37	BUNGEE 2 EACH	13117	LDAN	LDA	O
37	BELLCHANKS 2 EA	13116	LDAX	LOA	5
137	HETRACT ARM 2 LACH	13115	LDAY	LDA	0
37	TURQUE LINK 2 FACH	13113	LOAZ	LDA	2
37	MLG DOOR OPEN		LUB	LO	AAAAAAAA
	MLG DOOR ACTUATION		LDC	LDB	
A37	DUGR ACTUATING CYL SUPP	13130	LDCS	LOC	
A37	MLG DOOR ACT CYLINDER 2LA		LOCT	LDC	5
137	MLG DOOR ACT CYLINDER ZEA		LOCU		5
37	MLG DUOR LINKAGE ZEACH	11228	LOCV	LDC	5
37	ALG DOOR HINGE ZEACH	11223	LOCH	LUC	2

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	0000001111111111222222222233				
123	4567890123456789012345678901	2345678	901234567890123456	57890123456789	01234567890
37	STRUCTURE ZEACH	11222	LDCX	LDC	2
37	DOOR ASSEMBLY ZEACH	11221	LDCY	LDC	1
137	ACTUATOR ARM ZEACH	11228	LDCZ	LOC	5
37	EXTEND SEQUENCE CONTRUL		LDD	LO	AAAAAAAA
37	RETRACT SEQUENCE CONTROL		LOD	LUA	FAAAAAAAAA
37	RETRACT SEQUENCE CONTROL		LOU	LDC	FAAAAAAAA
A37	FOUR WAY SEQUENCE VALVE	13133	LDDV	LDO	8
37	SEQUENCE SWITCH ZEACH	13145	LOUW	LDO	5
37	HYDRAULIC RESTRICTOR 2EA	13134	LDDX	L00	2
A37	SHUTUFF VALVE ZEACH	13137	LDDY	LOD	5
137	SHUTOFF VALVE ZEACH	1313A	LDDZ	LOD	5
37	RIGHT GEAR DOWNLOCK MECH		LDY	LD	7
37	LEFT GEAR DOWNLOCK MECH	13126	LOZ	LU	7
	NLG UP & LUCKED		LE	LB	AAAAAAAA
37			LEA	LE	AAAAAAAA
37	ACTUATING CYLINDER	13223	LEAV	LEA	8
37	TRUNNION	13218	LEAW	LEA	8
37	TORQUE LINK	13214	LEAX	LEA	2
37	선물에 가는 사람들이 가득하면 하고 있다면 가장 있는 것이 되었다. 그는 사람들이 나를 가지 않는 것이다.	To the second of the second			5
37	ACTUATOR SPRING	13210	LEAY	LEA	0
	BUNGEE	13217	LEAZ	LEA	7
37	NLG UPLOCK MECHANISM	13215	LEZ	LE	
37			LF	LB	AAAAAAAA
37	MLG ACTUATION		LFA	LF	AAAAAAAA
37	MLG ROD END 2 EACH	13138	LFAQ	LFA	2
37	MLG ACTUATING CYLINDER 2E		LFAR	LFA	8
37	MLG SUPPORT ZEACH	13123	LFAS	LFA	5
37	MLG STRAP ZEACH	13122	LFAT	LFA	0
37	TRUNNION	13121	LFAU	LFA	5
37	TORQUE TUBE	13118	LFAV	LFA	2
37	BUNGEE	13117	LFAW	LFA	0
37	BELLCRANK 2 FACH	13116	LFAX	LFA	5
137	RETRACT ARM ZEACH	13115	LFAY	LFA	5
37	MLG TORQUE LINK ZEACH	13113	LFAZ	LFA	2
37	MLG DOOR CLOSED		LFB	LF	AAAAAAAA
37	MLG DOOR CLOSE ACTUATION		LFC	LFB	AAAAAAAA
A37	DOOR ACTUATING CYL SUPP	13136	LFCU	LFC	5
37	MLG DUOR UPLOCK LINK	13127	LFCR	LFC	5
37	UPLOCK ROLLER	11224	LFCS	LFC	2
A37	MLG DUOK ACTUATOR . 2 LACH	1313A	LFCT	LFC	5
137	MLG DOOR ACTUATOR 2 FACH	13138	LFCU	LFC	5
137	MLG DOOR LINKAGE 2 EACH	11228	LFCV	LFC	5
137	MLG DOOR HINGE 2 EACH	11223	LFCW	LFC	2
137	MLG DUOR STRUCTURE 2EA	11222	LFCX	LFC	2
T37	DOOR ASSEMBLY ZEACH	11221	LFCY	LFC	5
T37	ACTUATOR APM ZEACH	11228	LFCZ	LFC	5
37			LFO	LF	AAAAAAAA
	RETRACT SEQUENCE CONTROL		LFD	LFA	FAAAAAAAAA
37			LFD	LFC	FAAAAAAAAA
37	BUNGEE	11227	LFDV	LFO	0
A37	FOUR WAY SEQUENCE VALVE	13133	LFDV	LFU	8

PGGI	195.JIRI DATE = 09/17/75			FL IGHT	SAFETY	PREDIC	. TION	TECHNIOU
oce	.00000111111111122222222233	3333333	344444444	4555555	5556666	666666	51777	777778
	4567890123456789012345678961							
31	SEQUENCE SWITCH ZEACH	13145	LFDW		LFU		5	
37	HYDRAULIC RESTRICTOR ZEA	13134	LFDX		LFU		2	
A37	SEQUENCE SHUTOFF VALVEZLA	13137	LFDY		LFD		5	
137	SEQUENCE SHUTOFF VALVEZEA	1313A	LFDZ		LFD		5	
37	MLG UPLOCK MECHANISM ZEA		LFZ .		LF		7	
37	PNEUMATIC EXTEND FORCE		LG		LAA	K LH	AAA	AAAAAA
31	PNEUMATIC EXTEND FURCE		LG		LCA		FAA	AAAAAA
37	PNEUMATIC EXTEND FORCE		LG		LUA		- Attached	AAAAAA
37			LGA		LG			AAAAAA
37	KELEASE HANDLE LINKAGE	13612	LGAS		LGA		5	
37	EMERGENCY RELEASE HANDLE		LGAT		LGA		2	
37	PNEUMATIC AIR FILL VALVE		LGAU		LGA		1	
37	PNEUMATIC AIR BOTTLEGAUGE		LGAV		LUA		ō	
37	PNEUMATIC AIR BOTTLE	13621	LGAW		LGA		8	
37	SHUT-OFF VALVE	13624	LGAX		LGA		5	
137	SWIVEL FITTING NW	13225	LGAY		LGA		5	
137	SWIVEL FITTING 2 EACH	13137	LGAZ		LGA		5	
37	SHUTTLE VALVE HYD NA	13224	LGY		LG		Ü	
37	SHUTTLE VALVES ZEACH MG		LGZ		LG		8	
37			LH		LAA	LG		111111
37			LH		LCA			AAAAAA
37			LH		LUU			ALAAAA
37	HYDRAULIC DISTRIBUTION		LH		LEA			AAAAAA
37			LH		LFU			AAAAAA
37	HYURAULIC DISTRIBUTION		LH		LHXX			0000050
57	LG MODE SELECTED		LHA		LH		100000000000000000000000000000000000000	AAAAAA
137	CONTROL HANDLE BOOT	13317	LHAF		LHA		0	
37	CIRCUIT BREAKER	13234	LHAS		LHA		5	
31		13233	LHAT		LHA		5	
37	CONTROL HANDLE KNUB	13316	LHAU		LHA		U	
37	SELECTOR VALVE NG	13315	LHAV		LHA		b	
3.7	CONTROL LINKAGE	13314	LHAW		LHA		2	
37	BELL CRANK	13313	LHAX		LHA		5	
31	PUSH ROD	13312	LHAY		LHA		2	
37	LG CONTROL HANDLE	13311	LHAZ		LHA		5	
137	SWIVEL FITTING	13225	LHR		LH		2	
37	SHUTTLE VALVE NG	13224	LHS		LH		2	
437	SWIVEL FITTING ZEACH	1313P	LHT		LH		5	
137	SWIVEL FITTING ZEACH	13137	LHU		LH		5	
37		13136	LHV		LH		2	
57	HESTRICTOR	13222	LHW		LH		1	
37	CHECK VALVE	13221	LHX		LH		0	
37	HYDRAULIC ATTENUATION		LHXX		L		SUL	0000010
37	RESTRICTOR	13132	LHY		LH		1	
37	CHECK VALVE	13131	LHZ		LH		C	
37	ELECTRICAL DISTRIBUTION		LJ		LDD		FAAG	AAAAAA
37	ELECTRICAL DISTRIBUTION		LJ		LFD		FAAL	AAAAAA
37	LAND GEAR POWER DISTRBTION		LJ		LHXX		SCL	0000050
37	SAFETY SWITCH MLG	13148	LJS		11		C	
31	CIRCUIT BREAKER MLG	13146	LJT		LJ		5	

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00000000011111111112222222223	333333	33444444	444555555	555666	6666667177777778
123456789012345678901234567890	1234567	890123456	789012345	6789012	345678901234567890
A37 CIRCUIT BREAKER NG	13234	LJU		LJ	5
37 MLG DOWNLOCK SWITCH 2 EA	13142	LJV		LJ	5
37 MLG UPLOCK SWITCH ZEACH	13141	LJW		LJ	5
37 SAFETY SWITCH NG	13233	LJX		LJ	0
37 DOWNLOCK SWITCH NG	13232	LJY		LJ	5
37 UPLOCK GEAR SWITCH NG	13231	LJZ		LJ	5
37 ROLLING SUPPORT		LK		L	150000051
37 MLG HYD FILLER VALVE ZEA	13124	LKH		LK	0
37 NOSE GEAR STRUT ASSY	13212	LKJ		LK	2
37 NOSE GEAR ASSY	13211	LKK		LK	5
137 INNERTUBE	13723	LKL		LK	0
37 TIRE NOSE GEAR	13722	LKM		LK	3
37 TIRES MAIN GEAR 2 EACH	13721	LKN		LK	5
37 RETAINING NUT 3EA	13715	LKP		LK	2
37 SPACERS ZEA	13714	LKQ		LK	0
37 WHEEL BEARING 3EA	13713	LKR		LK	0
37 MAIN WHEEL 2 EACH	13711	LKS		LK .	2
37 NOSE WHEEL	13712	LKT		LK	2
137 MAIN WHEEL ALUMINUM 2EA	1371A	LKU		LK	2
37 DRAG BRACE NLG	13213	LKV		LK	2
37 NLG SUPPORT	13218	LKW		LK	5
37 LG SIDE BRACE ZEACH	13114	LKX		LK	
37 LG STRUT ASSEMBLY 2EA	13112	LKA		LK	1
37 LG ASSEMBLY ZEACH	13111	LKZ		LK	5
37 LANDING GEAR STATUS INDICAT		LS		LG	000000080
37 LG DOWNLOCK INDICATION		LSA		LS	111111111
A37 LG INDICATOR LITES	51411	LSAZ		LSA	
T37 LG INDICATOR LITES 3EACH	99138	LSAZ		LSA	1
37 LG UNSAFE AUDIO TONE		LSB		LS	533333333
37 THROTTLE LIMIT SWITCH 2	The same of the sa	LSBV		LS	5
37 AUDIO SILENCE SWITCH	13615	LSBM		LS	0
37 AUDIO SILENCE RELAY	13616	LSBX		LS	0
37 AUDIO WARNING RELAY	13614	LSBY		LS	5
37 AUDIO WARNING SIGNAL	13613	LSBZ		LS	5
37 LG UNSAFE WARNING LIGHT		LSC		LS	111111111
37 WARNING LIGHT RELAY	13144	LSCY		LSC	5
37 WARNING LIGHT	13143	LSCZ		LSC	3
37 LG DOWNLOCK STATUS		LSD		LS	SAAAAAAA
37 LG DOWNLOCK STATUS		LSO		LSA	FAAAAAAA
37 LG DOWNLOCK STATUS		LSD		LSA	FAAAAAAA
37 LG DOWNLOCK STATUS		LSO		LSC	FAAAAAAAA
37 NLG DOWNLOCK SENSED		LSE		LSO	AAAAAAA
37 NLG DOWNLOCK SWITCH	13232	LSEZ		LSE	2
37 MLG DUWNLOCK SENSED	113173	LSF		LSU	AAAAAAA
37 MLG DOWNLOCK SWITCH 2 EACH		LSFZ		LSF	2
37 CIRCUIT BREAKER	42313	LSZ		LS	5
37 LAND GEAR RETRACT ATTENUTE		LX		L	61000000
A37 MISSIGN SUPPORT		M			AAAAAAA
A37 MISSION PERFORMANCE RECORD		MA		M	00000000
A 37 GUN/ROCKET ACTION RECORDED	,	MAA		MA	111111111

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	000001111111111222222222				
	+56789012345678901234567890				
437	BUARD ASSY 77216	77215	MAAU	MAA	5
A37	BUARD ASSY 77215	77216	MAAV	MAA	5
A37	COMPUTER	77214	MAAW	MAA	2
A37	SENSOR	77213	MAAX	MAA	5
A37	MAGAZINE	77212	MAAY	MAA	2
437	CAMERA BODY KD 17C	77211	MAAZ	MAA	2
A37	ORUNANCE STRIKE RECURDED		MAH	MA	111111111
A37	CONNECTOR	77315	MARD	MAB	5
	SENSOR ASSY	77314	MABE	MAB	5
A37	COMPUTER ASSY	77313	MAHF	MAD	0
	INTERVALOMETER	77312	MABG	BAM	0
A37	CONTROL SWITCH	77311	MARH	MAB	5
A37	CIRCUIT BOARD ASSY	77118	MABJ	MAB	5
A37	CAMERA CONTROL	77117	MABK	MAH	5
A37	PROTECTIVE COVER	77116	MABL	MAB	0
	LENS	77115	MABM	MAG	8
A 37	FILTER	77114	MABN	MAB	1
A 57	TRACK	77113	MABP	MAB	0
A37	MOUNT	77112	MABQ	MAH	2
A 37	CAMERA BODY	77111	MABR	MAU	8
A37	CIRCUIT BOARD KEEPER	77116	MABS	MAB	0
A37	AEC BUARD ASSY	7711F	MART	MAB	2
A37	SCAN DRIVE BUARD ASSY	7711E	MABU	MAR	0
A37	PANEL ASSY	77110	MABV	MAH	2
437	FILM MAGAZINE	7711C 77116	MABW	MAB	5
A37	AEC ASSEMBLY	7711A	MARX	MAB MAB	2
A 37	MOTOR/GEAR ASSY	77110	MABY		
437	K-18A STRIKE CAMERA GUN CAMERA ACTIVATED	77110	MABZ	SAM AAM	8
437		75216	A STATE OF THE PARTY OF THE PAR	MAC	8 111111111
A 3 7	CIRCUIT BREAKER	75215	MACH		
A37	GUN CAMERA SWITCH	7521J	MACX	MAC MAC	2
A37	LOD SAFETY AMINTAINED	75213			
A37	GUN GAS PURGED		MB	M MB	110010011
431		12213	MBA	MBA	A C00050000
A37	GUN BLAST TUBE SEAL	12212	MBAX	VIVID-UI	5
A37	GUN BLAST TUBE ADAPTER	12211	MBAY	MBA MBA	8
	NOSE GUN FIRED	12211	MBB	MAA	111111111
A37				M6A	
A37	FIRING SWITCH	75211	MBBZ	MBb	FAAAAAAAA
A37	GUNS ENABLED	15211	MBC	MBB	AAAAAAAA
437	GUNS ENABLED		MBC	MUF	FAAAAAAAA
A 37	NG STEER SAFETY SWITCH	13233	MBCW	MBC	A
A37	NG STEER CKT BKR	13234	MBCX	MBC	Â
A37	MASTER ARM SWITCH	75210	MBCY	MBC	8
A37	MASTER GUN SWITCH	9975F	MBCZ	MBC	6
A37	NOSE GUN INTEGRITY MAINTN		MBD	M	\$00000000
437	NOSE GUN INTEGRITY MAINTA		MBD	MBB	11111111
437	BULT SUB-ASSY	74AAC	MBDE	MBD	0
A37	TIMING PIN	74AAU	MBDF	MBO	Ö
A31	THING PIN	THAN	HOUF	MDU	•

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	006001111111111122222222223				
	56789012345678901234567890				
A37	BEARING	74AAT	MBDG	MBD	0
437	BEARING	74AAS	WRDH	MBD	0
A37	HOUSING COVER	74AAR	MBDJ	MBD	0
437	REAR SUPPORT	74AAQ	MBDK	MBD	0
437	FRONT GEAR	74AAP	MBDL	MBD	0
137	REAR GEAR	74AAN	MBDM	MBD	O
137	GUN HOUSING	74AAM	MBDN	MBD	G
437	SAFEING SECTOR	74AAL	MBDP	MBD	0
437	KOTOR	74AAK	MADQ	MED	O
437	GUIDE BAR	74AAJ	MBDR	MBD	G
137	BARREL CLAMP	74AAH	MBDS	MBD	0
437	REMOVEABLE TRACK	74AAG	MBDT	MBD	0
137	HEAD BULT	74AAF	MBDU	MBD	0
137	FIRING PIN/SPRING SET	74AAE	MBDV	MBD	0
437	BULT BARREL CLAMP	74AAD	MBDW	MBD	û
437	AMMUNITION SUPPLIED		MBDX	MED	000000000
A37	MATCHED SUPPORT ASSY	74CAF	MBDXA	MBDX	0
137	LOAD SHAFT BRACKET	74BAK	MBDXAT	MEUX	1
437	SLOTTED DRIVE RING	74CAH	MBDXAU	MBDX	2
437	SPUR DRIVE GEAR	74CAL	MBDXAV	MBDX	8
137	TIMING RING ASSY	74CAK	MAXCH	MBDX	8
137	DRUM PARTITION ASSY	74CAJ	MBDXAX	MBDX	2
437	INNER DRUM ASSY	74CAH	MBUXAY	MADX	5
A37	MAIN ROUND GUIDE ASSY	74CAG	MBDXAZ	мвох	5
437	ROUND COUNTER ASSY	74CAE	мврхв	MDGX	2
A37	ADJUSTING BALL	74CAD	MBDXC	MBUX	S
A37	LINK EJECTION CHUTE	74CAC	MBDXD	MBDX	5
437	EJECTION CHUTE ASSY	74CAB	MBDXE	MBDX	8
437	AFT GUN ARM	74CAA	MBDXF	MBDX	5
37	EMPTY CARTRIDGE CONTAINE		MBDXG	MBDX	ó
437	RELEASE PINS	74BAT	MBDXH	MBOX	o
437	CLEARING SOLENOID ASSY	74BAS	and the second s		
37	FEEDER ASSY		MBDXJ	MBDX	2
437		74BAR	MBDXK	MBDX	5
437	DE-LINK LOADER ASSY ELECTRIC DRIVE ASSY	74BAQ	MBDXL	MBDX	2 5
		74BAP	MBDXM	MBDX	
137	REFERENCE SIGNAL GENERATI		MBDXN	MBDX	8
137	RECOIL ADAPTER	74BAM	MBDXP	MBDX	Ü
437	AFT GUN SUPPORT	74BAL	MBDXQ	MEDX	5
437	LOADER SHAFT	74BAJ	MBDXR	Medx	5
437	LOADER SHAFT BUSHING	74BAH	MBDXS	MBDX	C
137	ELECTRIC CONTROL	74BAG	MBDXT	MBDX	5
137	STORAGE BAG	74BAF	MBDXU	MBDX	2
137	LOADING CRANK ASSY	74BAE	MBDXV	MBDX	5
437	LOADING SECTOR	74BAD	MBDXW	MBDX	3
437	SAFING PIN	74BAC	MBDXX	MBDX	0
437	CABLE ASSY W2	74BAB	MBDXY	MBDX	1
437	CABLE ASSY WI	74BAA	MBDXZ	MBDX	1
437	BARREL 6 EA	74448	MBDY	MBD	0
437	GUN GAU-28/A	74444	MBDZ	MAD	Α
A37	INADVERTANT REL PREVENTED		MC	M	1100000011

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LOUGIA STORY	DAIF = U4/1///5	

A37	5678901234567890123456789 SUSPENSION INTEGRITY MAI		MCA	MC	160000011
A37	RIGHT WING STORES SUSPEN		MLAA	MCA	AAAAAAA
437	BOLTS	11316	MCAAV	MCAA	1
A37	FAIRING	11310	MCAAW	MCAA	i
A37	PYLUN HOOKS	9975E	MCAAX	MCAA	A
A 17	SWAY BRACES 4EA	11310	MLAAY	MCAA	2
A37	PYLONS 2 EACH	11318	MCAAZ	MCAA	5
A37	LEFT WING STORES SUSPEND		MCAB	MLA	AAAAAAAA
A37	BOLTS	1131E	MCARV	MCAB	1
A37	FAIRING	11310	MCABW	МСАН	0
A37	PYLON HOOKS	9975E	MCABX	MCAD	A
A37	SWAY BRACES 4 EA	11310	MCABY	MCA4	2
A37	PYLONS 2 EACH	11318	MCABZ	MCAB	5
437	STORES MAN RELEASE LEVE	R 99750	MCAZ	MCA	4
A37	FIRE CIRCUITS DE-ENERGIZ	ED	MCB	MC	100000011
A 37	STORE RELEASE DISABLE		MCBA	MC9	000000055
437	MASTER ARM SWITCH	7521C	MCBAZ	MCBA	8
437	FIRE CIRCUITS DISABLED		MCBB	MCB	500000055
A37	GROUND ARM SWITCH	99750	MCBBZ	MCBB	5
437	NG STEER SAFLTY SWITCH	13233	MCBY	MCU	>
A37	NG STEER CKT BKR	13234	MCBZ	MCB	6
A37	AIRCRAFT STORES CONFIGUR		MCU	MCA	511111111
437	AIRCRAFT STORES CONFIGUR		MCD	MCAA	FAAAAAAAA
437	AIRCRAFT STORES CONFIGUR		MCD	MCAH	FAAAAAAAA
A 37	SUU-11 POD GUNS CONFIGUR		MCDA	MCD	111111111
117	DRUM ASSEMBLY	74UAK	MCDAR	MCDA	0
A37	SUPPORT	74DAJ	MCDAS	MCDA	ù
457	RECOIL ADAPTER	74DAG	MCDAT	MCDA	C
A37	BATTERY CONTROL	74DAF	MCDAU	MCUA	C
437	LOADER	74DAD	MCDAW	MCDA	Ù
437	FAIRINGS	74 DAC	MCDAX	MCOA	0
A37	BARREL	74DAB	MCDAY	MCDA	0
A37	GUN	74DAA	MCDAZ	MCDA	0
137	RKT LAUNCHER CONFIGURED	74EAH	MCDB	MCD	0 111111111
A37	JUMPER CABLE STRIKER POST	74EAG	MCDBS MCDBT	MCDB MCDB	0
437	PIN SHORTING	74EA6	MCDBU	MCDA	Ö
437	GROUNDING BUTTON	74EAE	MCDBV	MCDH	Ö
A37	INTERVALOMETER	74EAD	MCDBW	MCDB	Ö
A37	LAU 59/A	74EAC	MCDBX	MCUR	5
A37	LAU 32/BA	74EAB	MCDBY	MCDB	5
A 37	LAU 31A	74EAA	MCDBZ	MCDB	5
A37	BOMBS/DISPENSES CONFIGUR		MCDC	MCD	111111111
A37	CHANNEL	75113	MCDCX	MCDC	5
437	BOMB RACK	75112	MCDCY	MCDC	5
437	BK-37 BOMB CONTAINER	75111	MCDCZ	MCDL	o de la companya della companya della companya de la companya della companya dell
A37	FEEDER	74DAF	MCDV	MCDA	o de la companya de l
A37	STORES RELEASED		MD	M	00000000
437	NURMAL STORES RELEASE		MDA	MD	111111111
			MDA	MDX	FAAAAAAAA

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A37 INCHES \$ SEL SET SEL						
A37 INERT STORE SEL JETTISON MOAB MOAB 11111111 A37 RELEASE/FIRE COMMAND MOAC MAB FAAAAAAAAA A37 RELEASE/FIRE COMMAND MOAC MOAC AAAAAAAAAA A37 FIRING SMITCH 7521F MOAC MOAC AAAAAAAAAA A37 FIRING SMITCH 75211 MOAC MOAC AAAAAAAAAA A37 FIRING SMITCH 75211 MOB MOB MOB 11111111 A37 FORES JETTISON INERT MOBA MB FAAAAAAAAA A37 FIRING SMITCH MOBA MB FAAAAAAAAA A37 STORES JETTISON INERT MOBA MB FAAAAAAAAAA A37 STORES JETTISON INERT MOBA MB FAAAAAAAAAA A37 SOMES JETTISON INERT MOBA MB FAAAAAAAAAA A37 SOMES JETTISON INERT MOBA MB FAAAAAAAAAA A37 SMITCH SALVU 75312 MOBBY MDBA 2 AAAAAAAAAA A37 SMITCH SALVU 75311 MOBBY MDBA AAAAAAAAA A37 SMITCH SALVU 75311 MOBBY MDB 5 A37 SMITCH ICHITION (SQUIB) 75311 MOBBY MDB 5 A37 SMITCH ICHITION SWITCH 8 75212 MOCY MIDC 5 A37 PELECTOR SW 75212 MOCY MIDC 5 A37 PELEASE SEQUENCE SELECT MDC MDA 11111111 A37 SOURCE RELAY 75213 MOCK MDB 5 A37 MODE SELECT SMITCH 75214 MOEX MDE 5 A37 SUGUENCE SMITCH 75216 MOEY MOE 5 A37 MOS STEER CKT BKR 13234 MOFW MDF 8 A37 MOS STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 MO STEER CKT BKR 13234 MOFW MDF 8 A37 ARN OPERATIONS CONTROLLED MDG MOW MOW MOB 9 A37 ARN OPERATIONS CONTROLLED MDG MOW			0C 75A			
A37 MODE SELECT SHITCH 7521F MOABZ MOABZ MOABZ MOABZ MOABZ MOABZ MOABZ MAB FAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			****		200 mg 1000	
A37 RELEASE/FIRE COMMAND		the state of the s	75 215			
A37 RELÊASÉ-PÉRÉ COMMANO MOAC AAAAAAAAA A37 FIRING SHITCH 75211 MOAC MOAC A37 EMERGENCY RELEASE MOB FAB COUOGLOAD A37 EMERGENCY RELEASE MOB MID IIIIIIIII A37 STORES JETTISON INERT MOBA MB FAAAAAAAA A37 STORES JETTISON INERT MOBA MB FAAAAAAAA A37 STORES JETTISON COMMAND MOBA MOB OOOOOOOOO A37 EMER JETTISON COMMAND MOBB MOB AAAAAAAAA A37 SHITCH SALVU 75312 MOBBY MOB A37 SHITCH SALVU 75312 MOBBY MOB A37 SHITCH SALVU 75312 MOBBY MOB A37 STATIONS SELECTEU MOC MID A37 SELECTOR SW 75212 MOCY MID A37 PYLON FUNCTION SHITCH 8 75216 MOC MID A37 PYLON FUNCTION SHITCH 8 75216 MOC A37 RELEASE SEQUENCE SELECT MOE MOD A37 SEQUENCE RELAY 75218 MOEN MOE 5 A37 PROGRAM SMITCH 75216 MOEX MOE 5 A37 PROGRAM SMITCH 75216 MOEX MOE 5 A37 PROGRAM SMITCH 75216 MOEX MOE 5 A37 NASTER GUN SMITCH 99756 MOF MOF B A37 NASTER GUN SMITCH 99756 MOF MOF B A37 NASTER ARM SMITCH 9756 MOF MOF B A37 MASTER ARM SMITCH 9756 MOF MOF B A37 ARM OPERATIONS CONTROLLED MOG MCBA FAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			12514			
A37 FIRING SWITCH A37 EMERGENCY RELEASE A37 EMERGENCY RELEASE A37 EMERGENCY RELEASE A38 HOBB A37 STORES JETTISON INERT A38 STORES JETTISON INERT A38 STORES JETTISON COMMAND A37 BOMB RACK SOLENOIDS 44A 9975B MOBA A37 BOMB RACK SOLENOIDS 44A 9975B MOBA A37 BOMB RACK SOLENOIDS 44A 9975B MOBA A37 SWITCH SALVU A37 SWITCH SALVU A37 SWITCH SALVU A37 SWITCH SALVU A37 SWITCH IGNITION (SQUIB) 75311 MOBBY A38 SWITCH SALVU A37 STATIONS SELECTED A38 SELECTOR SW A38 SELECTOR SW A38 SELECTOR SW A39 PLON FUNCTION SWITCH 8 75212 MOCY A37 RELEASE SEQUENCE SELECT A38 SEQUENCE SELECT ADC A39 MODE A31 MUDE SELECT SWITCH A31 MODE A32 MODE A33 MODE A34 MODE A35 SEQUENCE SWITCH A57 PROGRAM SWITCH A58 SEQUENCE SWITCH A59 PROGRAM SWITCH A59 PROGRAM SWITCH A59 PROGRAM SWITCH A59 PROGRAM SWITCH A59 NOS SELECT SWITCH A59 PROGRAM SWITCH A50 PROGRAM						
A37 EMERGENCY RELEASE A37 STORES JETTISON INERT A37 STORES JETTISON INERT A37 STORES JETTISON INERT A38 MOBB ACK SOLENOIDS A37 EMER JETTISON SHERT A38 MOBB ACK SOLENOIDS A37 EMER JETTISON COMMAND A38 MOBB MOBB A38 MOBB MOBB A38 MOBB MOBB A39 MOBB MOBB A39 MOBB MOBB A37 SHITCH SALVU A37 SHITCH IGNITION (SQUIB) 75311 A080 MOBB MOBB A37 SHITCH SALVU A37 SELECTOR SW A37 SELECTOR SW A38 PLECTOR SW A38 PLECTOR SW A39 PYLON FUNCTION SHITCH B 75212 A00C A39 PYLON FUNCTION SHITCH B 75216 A01 PYLON FUNCTION SHITCH B 75216 A02 MOBB A38 SEQUENCE SELECT A38 MOBB A39 MOBB A40AAAAAA A41 MOBB A42 MOBB A44AAAAAAA A43 PYLON FUNCTION SHITCH B 75216 A44 PYLON FUNCTION SHITCH B 75216 A45 SEQUENCE SELECT A47 SEQUENCE SELECT A48 MOBB A48 MOBB A48 AAAAAAAAA A48 MOBB A48 AAAAAAAAA A48 MOBB A48 AAAAAAAAA A48 MOBB A48 MOBB A48 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			****			
A37 EMERGENCY RELEASE A37 STORES JETTISON INERT A37 STORES JETTISON INERT A37 BOMB RACK SOLENDIOS 4EA 9975B MOBAZ A37 BOMB RACK SOLENDIOS 4EA 9975B MOBAZ A37 BOMB RACK SOLENDIOS 4EA 9975B MOBBZ A37 SWITCH SOLVU 75312 MOBBY MDH 5 A37 SWITCH GOLTION (SQUIB) 75311 MUBBZ MDB A37 SWITCH GOLTION (SQUIB) 75311 MUBBZ MDB A37 SELECTOR SW A37 SELECTOR SW A37 SELECTOR SW A37 PUON FUNCTION SWITCH 8 75216 MDCZ A37 RELEASE SEQUENCE SELECT MDE MDB MDC A37 BOMB RACK SOLENDIOS 4EA 9975B MDBAZ A37 POGRAM SWITCH T5212 MOCZ MDC A37 RELEASE SEQUENCE SELECT MDE MDB MDB AAAAAAAAA A11111111 MDE MDC A11111111 MDE MDC A11111111 MDC MDC A11111111 MDC MDC A11111111 MDC MDC MDC A11111111 MDC MDC MDC MDC MDC MDC			12511			
A37 STORES JETTISON INERT A37 STORES JETTISON INERT A37 BOMB RACK SOLENDIOS 4EA 9975B MOBAZ A37 BOMB RACK SOLENDIOS 4EA 9975B MOBAZ A37 EMER JETTISON COMMAND A37 SWITCH SALVO 75312 MOBBY MDB AAAAAAAAA A37 SWITCH GONITION (SQUIB) 75311 MOBBY MDB 5 A37 SWITCH GONITION (SQUIB) 75311 MOBBZ A37 SWITCH GONITION SWITCH 8 75212 MOCV A37 PYLON FUNCTION SWITCH 8 75216 MOCZ A37 PYLON FUNCTION SWITCH 8 75216 MOCZ A37 RELEASE SEQUENCE SELECT A37 BEQUENCE RELAY A37 SEQUENCE RELAY A37 SEQUENCE SWITCH A37 MASTER GUN SWITCH A37 MASTER GUN SWITCH A37 NG STEER CKT BKR 13234 MOFW A37 MASTER RAN SWITCH A37 ARM OPERATIONS CONTROLLED A37 ARM OPERATIONS CONTROLLED A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOFW A37 ARM OPERATIONS CONTROLLED A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37 NG STEER CKT BKR 13234 MOGW A37 ARM OPERATIONS CONTROLLED A37 NG STEER CKT BKR 13234 MOGW A37						
A37 STORES JETTISON INERT MDBA MDBA 2						
A37 EMER JETTISON COMMAND A37 SWITCH SALVU A37 SWITCH IGNITION (SQUIB) A37 SWITCH IGNITION (SQUIB) A37 SWITCH IGNITION (SQUIB) A37 SWITCH IGNITION A37 STATIONS SELECTE MDC MDC MDA AAAAAAAAA A37 SELECTOR SW A37 PYLON FUNCTION SWITCH 8 75212 MDCY MDC A37 PYLON FUNCTION SWITCH 8 75216 MDCZ MDC A37 PYLON FUNCTION SWITCH 8 75216 MDCZ MDC A37 SEQUENCE SELECT MDE MDE MDA IIIIIIIII A37 SEQUENCE SELECT MDE MDE MDA IIIIIIIIII A37 SEQUENCE SWITCH A37 PROGRAM SWITCH A37 SEQUENCE SWITCH A37 SUU-11 FIRED MDF MAA IIIIIIIIII A37 MASTER GUN SWITCH A37 MASTER GUN SWITCH A37 NG STEER SAFETY SWITCH A37 NG STEER SAFETY SWITCH A37 NG STEER CKT BKR A37 WING GUN SWITCH A37 AMOPENATIONS CONTROLLED MDG MDG MDC AAAAAAAAA AAAAAAAAA AAAAAAAAA AAAAAAAA						
A37 EMER JETTISON COMMAND						
A37 SWITCH SALVU 75312 MDBBY MDBB 5			99758	The second secon		
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A37	AC POWE	R DISTP	IBUTED		UABC		CNHF		FAA.	AAAAAA
T37	ELECTRI	C POWER			UABC		CNTE		AA	AAAAAA
137	ELECTRI				UABC		CNIG			AAAAAA
A37	AC POWE	R DISTR	LOUTED		UARC		CRB		AA	AAAAAA
157	AC POW	ER DIST	RIBUTED		UAUC		CT		AA	AAAAAA
37	AC POWE	H DISTP	IBUTED		UABC		DAB		SAA	AAAAAA
37	AC PONE	R DISTR	IAUTED		UABC		DABA		FAA	AAAAAA
37	AC POWE	R DISTR	IBUTED		UABC		DADB		FAA	AAAAAA
37	AC POWER	DISTRI	BUTED		UASC		EAAD		111	111111
37	AC POWE	+ DISTR	IBUTED		UABC		FAL		AA	AAAAAA
437	AC PONE	R DISTR	IBUTED		UABC		FCC		AA	AAAAAA
37	MAIN INV		OPERATIVE		UABE		UANC	GEAU	111	1111111
31	CIRCUI	T BREAK	ER	42313	UABEX		UARE			
Tol	MAIN IN			42123	UABEY		UAAL		3	
A37	MAIN IN			42121	UABEZ		UABE		3	
37	AUX INVE	RTER OP	EKATIVE		UADB		UARC	K UABE	AA	AAAAAA
37		T BREAK	Control of the contro	42313	UADBX		UADR	The second second	2	
137	STANDA	Y INVER	TER	42124	VAUBY		UADS	100	8	
A 3 7		Y INVER		42122	UADRZ		UADE		5	
T 2 /	OF DOMEN				LIDA		000			

UDA

UDA

AGU

UDA

860

BBC

GUBA

BDD

FAAAAAAAAA

FAAAAAAAAA

T37 DC POWER DISTRIBUTED

137 OC POWER DISTRIBUTED

A37 DC POWER DISTRIBUTED

137

DC POWER DISTRIBUTED

FLIGHT SAFETY PREDICTION TECHNIQUE

FUGU	43.31ML DATE - 09/11/13		PLIGHT SAFETY PRE	DICTION TECHNIC
	000001111111111222222222233333			
1234	567890123456789012345678901234	56789012345678	901234567890123456	78901234567890
A37	DC POWER DISTRIBUTED	UDA	BDE	F22222222
137	DC POWER DISTRIBUTED	UDA	BDE	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	BEF	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	BF	F6006000000
A37	DC POWER DISTRIBUTED	UDA	RECE	FAAAAAAAA
137	DC POWER DISTRIBUTED	UDA	BFH	F111111111
A37	DC POWER DISTRIBUTED	UDA	BFV	AAAAAAAA
137	OC POWER DISTRIBUTED	UDA	BFX	AAAAAAAA
A37	OC POWER DISTRIBUTED	UDA	BMA	AAAAAAAA
A37	INLET SCREEN ELECTRIC PWR	UDA	BZ	AAAAAAAA
A37	OC POWER DIST	UDA	CCB	AAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	CCBA	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	CCBB	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	CCC	ΑΑΑΑΑΑΑΑ
A37	DC POWER DISTRIBUTED	UDA	CNH	SAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	CNSC	FAAAAAAAA
A37	OC POWER DISTRIBUTED	UDA	CNBG	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	LNEX	FAAAAAAAAA
137	ELECTRIC POWER	UOA	CNTB	AAAAAAAAA
137	ELECTRIC POWER	UUA	CNTG	ΑΑΑΑΛΑΑΑ
A37	DC POWER DISTRIBUTED	UDA	CR	SAAAAAAAAA
137	DC POWER DISTRIBUTED	UDA	CR	ΑΛΑΛΑΛΑΛ
A37	DC POWER DISTRIBUTED	UDA	CKA	FAAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	CRB	FAAAAAAAA
137	DC POWER DISTRIBUTED	UDA	CT	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	DABC	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	DAGA A	AAAAAAAA
37	FIRE WARNING POWER	UDA	DCA	AAAAAAAA
137	COCKPIT WARNING POWER	UDA	DC D	ΑΑΑΑΑΑΑΑ
37	DC POWER DISTRIBUTED	UDA	EAAD	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EAD	SAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EADA	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EAUG	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EADJ	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EADK	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EADM	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EBBA	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EBBB	ALAAAAAA
137	DC POWER DISTRIBUTED	UDA	FBBC	
37	OC POWER DISTRIBUTED	UDA	EBBD	AAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	EBBE	AAAAAAA
37	OC POWER DISTRIBUTED	UOA	EBBF	ΑΑΑΑΑΑΑ
37	DC POWER DISTRIBUTED	UDA	EBBT	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	ECA	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	FAKE	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	FAS	AAAAAAAA
37	DC POWER DISTRIBUTED	UDA	FB	SAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	FBAB	FAAAAAAAA
37	DC POWER DISTRIBUTED	UDA	FBC	FAAAAAAAA
A37	DC POWER DISTRIBUTED	UDA	FCCC	*****

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0000000001111111112222222222	333333	334444 44444455555	555556666666	666777177717718
123456789012345678901234567890				
37 DC POWER DISTRIBUTED		UDA	FCT6	AAAAAAAA
3/ DC POWER DISTRIBUTED		UDA	FUT	ΑΑΑΑΑΑΑΑ
37 OC POWER DISTRIBUTED		UDA	FUTC	AAAAAAAAA
37 DC POWER DISTRIBUTED		UDA	FET	AAAAAAAA
37 UC PUMER DISTRIBUTED		UUA	GBAC	FAAAAAAAAA
37 UC POWER DISTRIBUTED		U04	Geb	AAAAAAAA
37 OC PUMER DISTRIBUTED		UDA	LB	000000000
37 DC POWER DISTRIBUTED		UDA	LS	AAAAAAAA
A37 DC POWER DISTRIBUTED		UUA	MBG	AAAAAAAAA
A37 UC POWER DISTRIBUTED		UDA	MDAC	AAAAAAAA
A37 OC POWER DISTRIBUTED		UDA	Mui.	FAAAAAAAA
A37 OC POWER DISTRIBUTED		UDA	MCF	AAAAAAAA
TOTSTARTER	42111	UDAFA	BOF	A
TSTSTARTER	4211A	UDAFB	HUL	Ā
			BDE	Ā
137STARTER	42118	UUAFC		A
T37STAKTER	4211C	UDAFD	805	
AST BATTERY POWER SUPPLIED		UJB	MUR	ΑΑΛΑΑΛΑΑ
37 BATTERY POWER SUPPLIED		UUB	UFF	ΔΑΔΑΑΑΔΑ
37 EMERGENCY MODE SELECT		UDBA	UDE	ΑΔΑΔΑΔΑΔ
37 SATTERY SWITCH	42232	UUUAZ	UUHA	5
37 CONNECTORS	42118	UDBV	UUB	5
37 VENT TUBE	42117	UDBW	UDO	2
37 DRAIN VENT	42116	ODRX	ULB	2
437 ENGINE START BUS OPERALIVE		UDBXX	EEU	LAAAAAAA
37 ENGINE START BUS UPERATIV	E .	UDBXX	UDRZZ	AAAAAAAA
137 ENGINE START BUS OPERATIVE		UDBXX	UDG	AAAAAAAA
37 10 AMP FUSE START HUS	42315	UÜBXXM	UDB XX	5
437 IGNITION SWITCH	42237	UDBXXX	UDSXX	ಕ
37 STARTER RELAY	42213	UDBXXY	UDBXX	5
T37 IGNITION SWITCH	42236	UDBXXZ	UDBXX	8
T37 SUMP JAR	42115	UDRY	UDS	0
37 BATTERIES 2 EACH	42113	UDBZ	UDB	8
37 START VOLTAGE MONITORED		UDBZZ	UCX	111111111
37 VOLTMETER	9942A	UDBZZZ	UDBZZ	1
37 DC POWER DIST		UDC	UAAM	AAAAAAAA
37 DC POWER DIST		UDC	JAAR	AAAAAAAA
37 UC PUWER DIST		UDC	UAAS	FAAAAAAAA
37 DC POWER DIST		UDC	UABC	SAAAAAAAA
37 UC POWER DIST		UDC	UDA	AAAAAAAA
37 RADIO INTERUPT SW	4231A	UDCS	UUC	0
37 JUNCTION BOX	42312	UDCT	UDC	2
437 BUS TIE RELAY	4231C	UDCU	UDC	8
A37 PARALLELING RELAY	4231E	UDCV	UDC	5
37 FUSE PANEL	42234	UDCW	UDC	2
37 EXTERNAL POWER PELAY	42214	UUCX	UUC	ō
37 TERMINAL STRIP	42311	UDCY	UDC	ŏ
37 EXT POWER FECEPTACLE	42112	UDCZ	UDC	ŏ
37 EMERGENCY DC PWR SUPPLIED		UDE	UDC K U	DG AAAAAAAA
37 BATTERY RELAY	42216	UDEZ	UDE	8
37 OC PWK GEN EA GF 2 ENGINE	3	UDG	UD5 XX U	DBA FAAAAAAAA

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	000000111111111122222222233333333 4567890123456789012345678901234567			
37	OC PWR GEN EA OF 2 ENGINES	UDG	UDC UD	
37	DC PWR GEN EA OF 2 ENGINES	UDG	UDGX	FAAAAAAAA
				5
137	GENERATOR / STARTER 2EA 4211B	UDGQ	UDG	
37	STARTER SWITCH 42235	UUGR	UDG	2
137	REVERSE CURRENT RELAY 42212	UUGS	UDG	5
A37	STARTER GENERATOR RELAY 42212	UDGT	UDG	5
37	STARTER RELAY 42213	UDGU	UDG	5
137	GENERATOR / STARTER 2EA 42111	UDGV	UDG	5
137	GENERATOR / STARTER ZEA 4211C	UDGW	UDG	5
37	DC DUTPUT INDICATED	UDGX	UDX	111111111
A37	TRANSFORMER 51512	UDGXW	UDGX	5
37	BALUM LIGHT 4221A	UDGXX	UDGX	2
37	LOADMETER RELAY 4231D	UDGXY	UDGX	5
A37	SHUNT LOADMETER 42318	UDGXZ	UDGX	2
T37	GENERATOR / STARTER 2EA 4211A	UDGY	UDG	5
A37	GENERATOR / STARTER 2EA 42111	UDGZ	UUG	5
37	GEN CONTROL & REG EA OF 2	MOU	UD6	AAAAAAAA
A37	OVER VOLTAGE RELAY 42218	UDMW	UDM	2
37	GENERATOR SWITCH 42231	UDMX	UDM	5
37	VOLTAGE REGULATOR 42211	UDMY	UDM	2
37	GENERATOR CONTROL RELAY 42215	UDMZ	UDM	8
37	PILOT ACTION	UDX	UAAX	FAAAAAAAAA
37	PILOT ACTION	UDX	UDBA	FAAAAAAAAA
37	PILOT ACTION	UDX	UDM	AAAAAAAA
A37	INLET SCREEN HYDRAULIC PWR	UHA	BZ	AAAAAAAA
37	HYDRAULIC POWER INPUT	UHA	FAF	AAAAAAAA
37	HYD PRESS DIST	UHA	FBDC	AAAAAAAA
37		UHA	GBAC	FAAAAAAAA
37		UHA	GBB	SAAAAAAAAA
37	HYDRAULIC POWER INPUT	UHA	GCC	AAAAAAAA
37	HYDRAULIC POWER INPUT	UHA	LH	ΑΛΑΛΑΛΑΛ
37		UHAA	UHA	000000000
T 37	RESTRICTOR FILTERS 45165	UHAAR	UHAA	1
137	VENT FILTER ELEMENT 45164	UHAAS	UHAA	2
137	VENT FILTER 45163	UHAAT	UHAA	5
A37	RES VENT FILTER ELEMENT 45166	UHAAU	UHAA	2
A37	RES VENT FILTER 45165	UHAAV	UHAA	5
A37	LO PRESS FILTER ELEMENT 45164	UHAAW	UHAA	2
A37	LU PRESS FILTER 45163	UHAAX	UHAA	5
37	HI PRESS FILTER ELEMENT 45162	UHAAY	UHAA	2
37	HI PRESS FILTER 45161	UHAAZ	UHAA	5
37	HYD PRESS.EA OF 2 PUMPS	UHAB	UHA	111111111
37	HYDRAULI PRESSURE	UHAB	UHAX	FAAAAAAAA
A37	QUICK DISCONNECT 45124	UHABW	UHAB	1
A37	PUMP SUPPLY HOSE 45123	UHABX	UHAB	8
37	PUMP PRESS HOSE 45122	UHABY	UHAB	8
37	ENGINE DRIVEN PUMP 45121	UHABZ	UHAB	A
37		UHAC	UHAB	AAAAAAAA
37	HYDRAULIC FLUID SUPPLIED HYDRAULIC INTAKE ASSY 45117	UHACT	UHAC	2
37		-	UHAC	0
31	HYDRAULIC FILLER SCREEN 45116	UHACU	UNAC	

PGGO	95.JIR1 DATE = 09/17/75			FL IGHT	SAFETY	PREDICTION TECHNIQUE	JE
0000	0000011111111112222222222	3 3 3 3 3 3 3	334444 4444	44555555	555666	066666667777777778	
1234	56789012345678901234567890	1234567	8901234567	890123450	789012	345678901234567890	
37	HYDRAULIC FLUID DRAIN	45115	UHACV		UHAC	1	
37	HYDRAULIC FLUID GUAGE	45114	UHACH		UHAC	. 0	
37	HYDRAULIC FLUID VENT	45113	UHACX		UHAC	1	
37	HYDRAULIC FLUID FILLER	45112	UHACY		UHAC	1	
37	HYDRAULIC FLUID TANK	45111	UHAC Z		UHAC	. 8	
37	PRESSURE REGULATOR	45151	UHAP		UHA	2	
A37	RETURN HOSE	45174	UHAQ		UHA	5	
A37	PRESSURE HUSE	45173	UHAR		UHA	5	
A37	RETURN LINE	45172	UHAS		UHA	5	
A37	PRESSURE LINE	45171	UHAT		UHA	5	
37	AUX POWER CNX	45146	UHAU		UHA		
37	CHECK VALVE	45144	UHAV		UHA	1	
37	RELIEF VALVE	45142	UHAW		UHA	1	
37	HYD PRESSURE INDICATED		VHAX		UHA	I UHAU AAAAAAA	
37	HYD PRESSURE INDICATER	51611	UHAXY		UHAX	7	
37	HYD PRESSURE TRANSMITTER	51612	UHAXZ		UHAX	8	
37	PRESSURE CAUGE	45132	UHAY		UHA	C	
37	UTILITY ACCUMULATUR	45131	UHAZ		UHA	5	

CARD COUNT IS 00002717. CARDS WITH ERRORS COCOODOU